



# Asset Management

## Accounting Policy and Procedures

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## Definitions and Abbreviations

Item	Description
Asset	An asset is a resource, tangible or intangible, controlled by the municipality/entity which is expected to last more for than twelve months and from which future economic benefits or service potential will flow.
Asset management	Management of the assets of the municipality as required by municipal legislation which <i>inter alia</i> includes the compilation of a fixed asset register
Carrying Amount	The amount at which an asset is included in the statement or financial position after deducting any accumulated depreciation and any impairment losses thereon.
Cash-generating assets	Assets held with the primary objective of generating a commercial return.
Cash-generating unit	The smallest identifiable group of assets held with the primary objective of generating a commercial return that generates cash inflows from continuing use that are largely independent of the cash inflows from other assets or groups of assets.
Chief Financial Officer	Chief Financial Officer or the official acting in that capacity
Commencement of the lease term (MMM as the lessee)	The date from which the municipality is entitled to exercise its right to use the leased asset. It is the date of initial recognition of the lease.
Cost	The amount of cash or cash equivalents paid, or the fair value of the other consideration given to acquire an asset at the time of its acquisition or construction.
Depreciation	This is the systematic allocation of the cost of use of an asset over its useful life.
Depreciable amount	The cost of an asset, or other amount substituted for cost in the financial statements, less its residual value.
Fair Value	The amount for which an asset could be exchanged, or a liability settled between knowledgeable, willing parties in an arm's length transaction.
Fair Value less costs to sell	The amount obtainable from the sale of an asset in an arm's length transaction between knowledgeable, willing parties, less the costs of disposal.
FAR	Fixed Assets Register preferably in computerized format and maintained strictly in accordance with this document, which shall reflect all the assets of the municipality.
Finance Lease	A lease that transfers substantially all the risks and rewards incidental to ownership of an asset. Title may or may not eventually be transferred.
GRAP	Standards of Generally Recognised Accounting Practice
Inception of a Lease	The earlier of the date of the lease agreement and the date of commitment by the parties to the principal provisions of the lease. As at this date: <ul style="list-style-type: none"> <li>• a lease is classified as either a finance lease or an operating lease, and</li> <li>• in the case of a finance lease, the amounts to be recognised at the commencement of the lease term as determined.</li> </ul>
IAS	International Accounting Standards
Impairment	An asset is impaired when the carrying amount exceeds its recoverable amount
Lease	An agreement whereby the lessor conveys to the lessee in return for a payment or series of payments the right to use an asset for an agreed period of time.

Item	Description
Lease Term	The non-cancellable period for which the lessee has contracted to lease the asset together with any further terms for which the lessee has the option to continue to lease the asset with or without any further payments, when at the inception of the lease it is reasonably certain that the lessee will exercise the option.
MSCOA	<p>MSCOA is a financial-reporting regulatory reform that came into full effect in South Africa on 1 July 2017. This reform represents a business-process-focused project that standardises all municipal accounting practices and reporting across the country.</p> <p>Every municipality and municipal entity has a chart of accounts that lists all accounts used in the general ledger. The ledger is leveraged by municipal accounting software to aggregate information into an entity's financial statements. mSCOA targets municipal operations by enforcing a standardisation of municipal account numbers and descriptions in their charts.</p>
Non-Cash-generating assets	Assets other than cash-generating assets.
PPE	<p>Property, Plant &amp; Equipment – These are tangible assets that:</p> <ul style="list-style-type: none"> <li>• are held for use in the production or supply of goods or services, for rental to others, or for administrative purposes and</li> <li>• are expected to be used during more than one reporting period</li> </ul>
Residual value	The estimated amount that the municipality would currently obtain from disposal of the asset after deducting the estimated costs of disposal, if the asset were already of the age and in the condition expected at the end of its useful life.
Recoverable amount	The estimated amount which the municipality expects to obtain for an asset at the end of its useful life after deducting the expected costs of disposal.
Recoverable service amount	The higher of a non-cash-generating asset's fair value less costs to sell and its value in use.
Remaining useful life (RUL)	Remaining time until an asset is unable to provide a service or economic value
SCM	Supply Chain Management
Useful life / Expect useful life (EUL)	<p>Useful life is either:</p> <ul style="list-style-type: none"> <li>• the period over which an asset is expected to be available for use by the municipality, or</li> <li>• the number of production or similar units expected to be obtained from the asset by the municipality.</li> </ul>
Value in use	Is the present value of estimated future cash flows expected to arise from the continuing use of an asset and from its disposal at the end of its useful life.
Value in use of a non-cash-generating asset	The present value of the asset's remaining service potential.

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## **Section 1: Objective of the Asset Management Policy**

The Asset Management Policy provides direction for the management, accounting and control of Property, Plant & Equipment (PPE), investment property and associated intangible assets owned or controlled by the municipality. The policy commits the municipality to establish and maintain an asset register that complies with the latest accounting standards, and to account for the assets in a way that is aligned with the municipality's strategic objectives and recognised good practice.

The objective of this policy is for the municipality to:

- Implement prevailing accounting standards; and
- Provide a data platform that will support asset management practice in accordance with legal requirements and recognised good practice.

### **CONSTITUTIONAL AND LEGAL FRAMEWORK**

The South African Constitution requires municipalities to strive, within their financial and administrative capacity, to achieve the following objects:

- providing democratic and accountable government for local communities;
- ensuring the provision of services to communities in a sustainable manner;
- promoting social and economic development;
- promoting a safe and healthy environment; and
- encouraging the involvement of communities and community organisations in matters of local government.

The manner in which a municipality manages its PPE is central to meeting the above challenges. Accordingly, the Municipal Systems Act (MSA) specifically highlights the duty of municipalities to provide services in a manner that is sustainable, and the Municipal Finance Management Act (MFMA) requires municipalities to utilise and maintain their assets in an effective, efficient, economical and transparent manner. The MFMA specifically places responsibility for the management of municipal assets with the Municipal Manager.

### **ACCOUNTING STANDARDS**

The MFMA requires municipalities to comply with the Standards of Generally Recognised Accounting Practice (GRAP), in line with international practice. Key changes include the recognition of depreciation of assets as an expense, and conditional grants as revenue when it is utilised. Immoveable assets are unbundled, and each significant component is individually recognised and accounted for. PPE are measured at cost, though in cases where it is impracticable to establish the cost (e.g. where there are no reliable records, or records cannot be linked to specific assets), the cost is deemed to be the fair value of the PPE. Specialised buildings (such as community facilities) and infrastructure (such as a water supply network) are valued using a depreciated replacement cost. As a high capacity municipality, Mangaung Metropolitan Municipality (MMM) had to convert to GRAP on 1 July 2007.

### **MANAGEMENT OF INFRASTRUCTURE ASSETS**

Effective management of infrastructure and community facilities is central to the municipality providing an acceptable standard of services to the community. Infrastructure impacts on the quality of the living environment and opportunities to prosper. Not only is there a requirement to be effective, but the manner in which the municipality discharges its responsibilities as a public entity is also important. The municipality must demonstrate good governance and customer care, and the processes adopted must be efficient and sustainable. Councillors and officials are custodians of infrastructure assets on behalf of the public.

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Legislation has also entrenched the Integrated Development Plan (IDP) as the principal strategic planning mechanism for municipalities. However, the IDP cannot be compiled in isolation – for the above objectives to be achieved, the IDP needs to be informed by robust, relevant and holistic information relating to the management of the municipality’s infrastructure. There is a need to direct limited resources to address the most critical needs, to achieve a balance between maintaining and renewing existing infrastructure whilst also addressing backlogs in basic services and facing on going changes in demand. Making effective decisions on service delivery priorities requires a team effort, with inputs provided by officials from a number of departments of the municipality, including infrastructure, planning, human settlement, community services, financial planning, and corporate services.

Accordingly, the asset register adopted by a municipality must meet not only financial compliance requirements, but also set a foundation for improved infrastructure asset management practice. This document provides the framework and policy directives in terms of which MMM accounts for assets in a manner that satisfies the requirements of all relevant accounting standards.

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## **Section 2: Role of the Municipal Manager**

As accounting officer of the municipality, the Municipal Manager shall be the principal custodian of all the municipality's fixed assets and shall be responsible for ensuring that the fixed asset management policy is scrupulously applied and adhered to.

The Municipal Manager or his duly delegated representative is responsible to:

- Ensure implementation of the approved Asset Management Policy as required in terms of section 63 of the Municipal Finance Management Act (MFMA).
- Verify assets in possession of the Council annually, during the course of the financial year.
- The Municipality's assets are valued in accordance with standards of generally recognized accounting practice.
- Keep a complete and balanced record of all assets in possession of the Council.
- Report in writing all asset losses, where applicable, to Council.
- Ensure that assets are valued and accounted for in accordance with a statement of GRAP.
- Ensure that assets are properly maintained and safeguarded.
- Heads of Departments and their staff comply with this policy.
- Asset management policy is reviewed annually

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### Section 3: Role of the Chief Financial Officer

The Chief Financial Officer shall be the custodian of the fixed asset register of the Municipality, and shall ensure that a complete, accurate and up-to-date computerised fixed asset register is maintained. No amendments, deletions or additions to the fixed asset register shall be made other than by the Chief Financial Officer or by an official acting under the written instruction of the Chief Financial Officer.

#### **The Chief Financial Officer must ensure that:**

- Appropriate systems of financial management and internal control are established and carried out diligently;
- The financial and other resources of the Municipality are utilized effectively, efficiently, economically and transparently;
- The systems, processes and registers required to substantiate the financial values of the municipalities' assets are maintained to standards sufficient to satisfy the requirements of the Auditor-General;
- The City Manager is appropriately advised on the exercise of powers and duties pertaining to the financial administration of assets;
- The senior managers and senior management teams are appropriately advised on the exercise of their powers and duties pertaining to the financial administration of assets;

#### **3.1 Asset Management Division**

- 3.1.1 Shall ensure that complete records of asset items are kept, verified and balanced regularly.
- 3.1.2 Shall ensure that all movable assets are properly tagged and accounted for. (see also 23.1);
- 3.1.3 Shall conduct an annual audit inventory by scanning selected movable assets and compare this inventory with the Departments asset sign offs. (see also 23.2)
- 3.1.4 The asset verification report shall reflect any discrepancies between the articles found during verification and the record referred to in the point above;
- 3.1.5 Shall ensure that the Fixed Asset Register is balanced annually with the general ledger and the financial statements.
- 3.1.6 Shall ensure adequate bar codes to exercise the function relating to asset control are available at all times.
- 3.1.7 Shall provide the Auditor-General or his personnel, on request, with the financial records relating to assets belonging to Council as recorded in the Fixed Asset Register.
- 3.1.8 Shall ensure that all audit queries are resolved in a timely manner.
- 3.1.9 Shall ensure that the relevant information relating to the calculation of depreciation is obtained from the Departments and provided to the Finance Department in the prescribed format.
- 3.1.10 Shall ensure that asset acquisitions are allocated to the correct asset code.
- 3.1.11 Shall ensure that, before accepting an obsolete or damaged asset or asset inventory item, a completed asset disposal form, counter signed by the Asset Management Division, is presented.
- 3.1.12 Shall ensure that a verifiable record is kept of all obsolete, damaged and unused asset or asset inventory items received from the Departments.
- 3.1.13 Shall compile a list of the items to be auctioned in accordance with their guidelines in the Supply Chain Management (SCM) Policy.
- 3.1.14 Shall compile and circulate a list of unused movable assets to enable other Departments to obtain items that are of use to them.
- 3.1.15 Shall ensure that the Supply Chain Management is notified of any auctioning or disposing of written-off asset or asset inventory items.



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- 3.1.16 Comment on Departmental assets items submission before such items serve in the respective Portfolio meetings and Council.
  - 3.1.17 Provide continuous support to Asset Controllers

### **3.2 The Manager: Budgets**

- 3.2.1 Shall ensure that the capital budget as submitted by the Departments is approved. A clear description of the funding source is also required.
- 3.2.2 Shall release capital funds only after receiving written authority and a clear and concise description of the item to be purchased as well as an allocated responsible person for this asset.
- 3.2.1 Shall ensure that any changes in the capital budget, with regards to funds transferred or project description changes are communicated to the Asset Management Division.

### **3.3 The Manager: Expenditure and Accounting (Supply Chain Management)**

- 3.3.1 Shall ensure that invoices authorized for payment are matched to the goods received note / proof before processing such payment.
- 3.3.2 Shall ensure that all new asset acquisitions have been allocated assets/fleet numbers by the Asset Management Division, before payments is made.
- 3.3.3 Shall, if any doubt exists as to whether the invoice is in accordance with policy, query the payment with the relevant Department and shall not process a payment until the invoice meets the policy criteria.

### **3.4 Property Management**

- 3.4.1 Shall ensure that when land and / or property acquisition and/or disposal the title deed number and description of the asset shall be provided to the Manager Expenditure and Accounting as per the relevant title deed.

### **3.5 Supply Chain Management**

- 3.5.1 Shall procure and / or dispose of assets via auction or public tender or any other approved method in accordance with the provisions in the Supply Chain Management (SCM) Policy.
- 3.5.2 To ensure that the Bid Adjudication / Bid Specification Committee must comply with and be constituted in accordance with the prescription of the SCM policy.
- 3.5.3 Shall ensure that the Special Conditions of Contract will include the condition that documentation required to clearly identify, locate, unbundle and cost new infrastructure assets be submitted on completion of the project.

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## Section 4: Role of other Heads of Departments

### 4.1 Corporate Services

- 4.1.1 Shall ensure that no monies are paid out on termination of employee services without receiving the relevant asset handover form signed off by the relevant Department. (See also 25.6)
- 4.1.2 Shall ensure that every asset handover form is counter signed by the Asset Management Division before processing the termination of service.
- 4.1.3 Shall inform the Asset Management Division of any new locations created as a result of changes in the layout of existing office buildings, new office buildings acquired or leased.
- 4.1.4 Shall confirm that the required approval has been obtained prior to moving assets from any location.

### 4.2 All Departments

#### **Heads of Departments must ensure that:**

- 4.2.1 Employees in their departments adhere to the approved Asset Management Policies.
- 4.2.2 An employee with delegated authority has been **appointed** to implement and maintain physical control over assets in the Department. The Asset Management Division must be notified **in writing** of who the responsible person/s is. Although authority has been delegated, the responsibility to ensure adequate physical control over each asset remains with the Head of department.
- 4.2.3 Assets are properly maintained in accordance with their respective asset maintenance policies.
- 4.2.4 Assets of the Municipality are not used for private gain.
- 4.2.5 All their movable assets as reflected on the Fixed Asset Register are bar-coded where possible.
- 4.2.6 The Asset Management Division is notified of any changes in the status of the assets under the Department's control. This must be done on the prescribed form and include the following:
  - (i) Movements/Disposals which relate to the transfer of assets (inter Department transfers).
  - (ii) Changes in the estimated useful lives of assets for depreciation purposes.
  - (iii) Changes in depreciation methods to best reflect an assets pattern of use.
  - (iv) The identification of impairment losses on assets by following the procedures as outlined in section 20 of this policy document.
- 4.2.7 Shall certify in writing that they have assessed and identified impairment losses on all assets at year end.
- 4.2.8 All obsolete and damaged asset items, accompanied by the relevant asset form and attached disposal forms, are handed in to the Asset Management Division without delay.
- 4.2.9 The correct cost element and description are being used before authorising any requisitions.
- 4.2.10 shall not procure any asset until the asset number is obtained, asset number allocated and will ensure that assets are bar-coded by the Asset Management Division and insured by the Finance Department.
- 4.2.11 They or their nominated officials perform physical verification, stocktaking of all assets annually and submit the accountability report to the Chief Financial Officer by the 31st May. This has to be complied with, in order to adhere to the MFMA, section 126.

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4.2.12 the detailed projects as created must be categorized and clearly identified as follows:

(a) Tangible Assets

Immovable Assets:

- Infrastructure assets
- Buildings
- Land
- Community assets
- Heritage assets
- Recreational Facilities
- Asset under construction (Only an asset after completion)
- Town Development
- Investment Properties

Movable Assets:

- Aircraft
- Bins and Containers
- Emergency Equipment
- Emergency Vehicles
- Furniture and Fittings
- Heritage.
- Motor Vehicles
- Office Equipment
- Tools, Plant and Equipment
- Watercraft
- Zoo Animals
- Other

(b) Intangible Assets (See Clause 11)

- Copyright
- Patents
- Computer programs
- Licensing rights
- Servitudes
- Advertising rights
- Encroachment rights
- Other

(c) Biological assets (See Clause 10)

- Living Animals used for Agricultural activities
- Living Plants used for Agricultural activities

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### 4.3 Asset Users (Users)

- Each user is responsible for the assets under their control, allocated to/used by them in the performance of their duties.
- Each user must sign the room inventory list containing the bar-coded assets allocated to them. These lists must be visibly displayed for audit purposes, preferable at the back of the doors. The Asset Controllers and the Asset Management Division must keep copies of the movable assets lists.
- Asset users are prohibited to move/transfer assets from the location recorded in the asset register without proper authorisation.
- Each user must take all reasonable precautions to protect their assets against losses and/or damage.
- Each user must maintain or take steps to maintain their assets for their useful life. Users must check and verify their physical assets against their assets lists regularly and ensure that changes in physical assets in their possession are updated in their assets lists.
- Any damage to the asset items must be immediately reported to superiors as well as to their responsible Asset Controllers who will recommend appropriate steps to be taken in relevant incidents.
- The assets users must avail assets under their control at any time, at the request of the MMM or the Asset Management Division or External Audit or Internal Audit Section for verification purposes.
- In the event of such assets being missing stolen or lost, the responsible user shall accordingly report the incident to the SAPS. The reported case information will be the source document used to report missing/stolen/lost assets to their superiors, as well as to their responsible Asset Controllers who will take further appropriate action in the relevant incidents.
- Should it be found that users were not properly utilizing/maintaining/securing assets under their control/stewardship leading to asset/s damages/losses such users' Head of Department must recover the replacement costs of such assets from relevant users
- Privately owned assets may only be used on council premises with the written authorisation of the HOD. The authorisation must contain a detailed description of the asset (serial number, make model, etc.) to clearly identify the asset and should be presented to representatives of the Asset Management Division or External Audit or Internal Audit Section for verification purposes.

### 4.4 Asset Controllers

- The Asset Controllers are officials **appointed** by Heads of Departments to safeguard the assets; but the Heads of Departments shall remain accountable for ensuring that the required assets activities are promptly performed.
- Where, Asset Controller/s have either not been nominated or the physical buildings / premises are not appropriately represented for asset control purposes, the Head of Department of such non-represented area shall be deemed not to have delegated asset control responsibility and therefore retains operational asset control functions.
- These Asset Controllers must ensure that the Assisting Asset Controllers are nominated to cover all physical buildings / premises where the Head of Department is responsible throughout the MMM. The Assisting Asset Controllers should preferably not be responsible for more than 15 rooms and the Asset Controllers should take the overall responsibility of the consolidated asset control function for each Head of Department.
- The main tasks of Asset Controllers and their Assisting Asset Controllers are listed below:

No.	Main task	Brief description
1	Receipt of purchased assets and uniquely identifying assets	<ul style="list-style-type: none"> <li>- Ensure that the ordered assets are delivered timeously.</li> <li>- Verify that the delivered assets are as per the order</li> <li>- Liaise with Asset Management Division to assigning a unique bar code number before assets are issued.</li> </ul>
2	Transferring / Moving of assets	<ul style="list-style-type: none"> <li>- Ensure that an Asset Transfer form is completed, approved by the relevant HOD's and submitted to the Asset Management Division.</li> </ul>
3	Physical assets Verification	<ul style="list-style-type: none"> <li>- Physically verify assets and ensure that room inventory listings are signed off</li> <li>- Report any deviations to the HOD for further action.</li> </ul>
4	Write-off/Disposal	<ul style="list-style-type: none"> <li>- Ensure that an Asset Disposal/Write-off form is completed, approved and submitted to the Asset Management Division.</li> <li>- The Finance Department will co-ordinate all asset reports to the City Manager and Council.</li> </ul>
5	Asset Management documentation completion	<ul style="list-style-type: none"> <li>- Completing all appropriate documentation in relation to asset management to ensure that the physical assets in their areas of responsibility are a simulated version of the assets register records including, ensuring that upon staff resignation; in designated areas of responsibility; staff comply with and sign room inventory listings and ensure that all assets previously allocated to outgoing staff are left in a good working condition for the next user/s and that the asset information changes reach the Asset Management Division timeously.</li> </ul>
6	Insurance related documentation and information submission	<ul style="list-style-type: none"> <li>- Ensure that loss of assets is reported to the CRO, Registration (3rd Floor, Bram Fisher) and, where necessary, to the SAP.</li> <li>- Ensure that insurance claims are completed and submitted to the Asset Management Division.</li> </ul>

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## **Section 5: Definition of an asset**

### **5.1 Definition of an Asset**

An asset is a resource controlled by the municipality as a result of past events and from which future economic benefits or service potential is expected to flow to the municipality. Alternatively, an asset can be described as a resource, tangible or intangible, controlled by the municipality/entity which is expected to last more for than twelve months and from which future economic benefits or service potential will flow.

The definition has three components, which must all be satisfied in order to be classified as 'an asset' in an accounting sense. They are relevant to all forms of assets:

- 5.1.1 The municipality has the capacity to control the service potential or future economic benefits of the asset, that it has control of the economic benefits or service potential of the asset rather than 'physical' control;
- 5.1.2 The service potential or future economic benefits arose from past transactions or events existing on reporting date (that is future assets cannot be recognised in the financial statements); and
- 5.1.3 The asset has future service potential or economic benefit for the municipality. The future economic benefit embodied in an asset is the potential to contribute, directly or indirectly, to the flow of cash and cash equivalents to the municipality. The potential may be a productive one that is part of the operating activities of the municipality. It may also take the form of convertibility into cash or cash equivalents or a capability to reduce cash outflows, such as when an alternative process lowers the costs of providing a service.
- 5.1.4 Service potential is thus the capacity of an asset, singularly or in combination with other assets, to contribute directly or indirectly to the achievement of an objective of the municipality.
- 5.1.5 An asset held under a finance lease, if it meets the remaining criteria of a fixed asset, shall be so recognized, as the municipality has control over such an asset even though it does not own the asset.

### **5.2 Purpose of Assets**

- 5.2.1 The purpose of assets is to support the delivery of a service to the public. Assets should exist to support programme delivery.

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## Section 6: Format of the fixed asset register

### 6.1 Format

The fixed asset register shall be maintained in the format determined by the Chief Financial Officer, which format shall comply with the requirements of any accounting requirements which may be prescribed.

Without in any way detracting from the compliance criteria mentioned in the preceding paragraph, the fixed asset register shall reflect at least the following information:

- a brief but identifiable description of each asset
- classification of each asset
- the date on which the asset was acquired for use
- the location of the asset
- the Departments or cost centre within which the assets will be utilised
- the responsible person for this asset
- the title deed number, in the case of fixed property
- the stand number, in the case of fixed property
- Encumbrances or impediments upon fixed property such as servitudes, caveats, mortgages, etc.
- status of the fixed property (land) in terms of the municipal town planning scheme.
- where applicable, the identification number, as determined in compliance with 7.2 below
- the original cost or fair value if no costs are available
- the (last) effective date of revaluation of the fixed assets subject to revaluation
- the revalue value of such fixed assets
- the valuer who did the (last) revaluation
- accumulated depreciation to date
- the carrying value of the asset
- whether this is a cash or non-cash generating asset
- the method and, where applicable, the rate of depreciation
- impairment losses
- impairment recovery
- the source of financing
- the current insurance arrangements
- whether the asset has been used to secure any debt, and – if so – the nature and duration of such security arrangements
- maintenance plan referrals
- whether the asset is required to perform basic municipal services;
- the date on which the asset is disposed of
- the disposal proceeds
- the date on which the asset is retired from active use, and held for disposal
- the residual value of each asset
- measurement model
- periods when the asset was idle and reason for the idleness.

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All Heads of department under whose control any fixed asset falls shall promptly provide the Chief Financial Officer in writing of any information required to compile the fixed asset register and shall promptly advise the Chief Financial Officer in writing of any material change which may occur in respect of such information.

A fixed asset shall be capitalised, that is, recorded in the fixed asset register, as soon as it is acquired and is available for use. If the asset is constructed over a period, it shall be recorded as work-in-progress until it is available for use, where after it shall be appropriately capitalised as a fixed asset.

A fixed asset shall remain in the fixed asset register for as long as it is in physical existence. The fact that a fixed asset has been fully depreciated shall not in itself be a reason for writing-off such an asset.

## **6.2 Different categories within FAR**

- 6.2.1 The Fixed Asset Register (FAR) for the Municipality will contain the following types of assets categorized as tangible assets (movable and immovable), intangible assets and biological assets.

### Tangible Assets

(a) Immovable Assets:

- LAND AND BUILDINGS
  - Land
  - Buildings
  - Inventory
- INFRASTRUCTURE
  - Bridges
  - Intersection
  - Road Furniture
  - Sanitation
  - Sidewalks
  - Water
  - Rail Road Sliding
  - Roads
  - Stormwater
  - Water Meters
- COMMUNITY ASSETS
  - Parks
  - Fresh Produce Market
  - Landfill
  - Law Enforcement Cameras
  - Quarry
  - Sports Grounds
  - Swimming Pools
  - Sport Stadium
  - Security Cameras



- 
- Zoo
  - Cemeteries
  - Hawker Stalls
  - Environmental Facilities
  - Council Dogs
  - HERITAGE ASSETS
    - Buildings
    - Nature Reserve
    - Statues
  - INVESTMENT PROPERTIES
    - Investment Property

(b) Movable Assets:

- Furniture and Office Equipment
- Computer Equipment
- Motor Vehicles
- Firearms
- Capitalized leased equipment
- Tools, Plant and Equipment
- Zoo Animals

(c) Intangible Assets (See Section 11)

- Copyright
- Patents
- Computer programs
- Licensing rights
- Servitudes
- Advertising rights
- Encroachment rights
- Other

(d) Biological assets (10.1)

- Live animals used for Agricultural activities (poultry, cattle, fish, dairy etc.)
- Live plants used for Agricultural activities (maize, wheat, forestry etc)

### 6.2.2 General

- (a) The FAR will consists of all the asset master records of movable assets capitalised. These assets will be implemented with effect from approval of policy or immediately after formalization of the FAR.
- (b) Immovable assets on the FAR will not be physically numbered with barcode labels but will have a unique master record number.
- (c) Capital work-in-progress or incomplete construction work is stated at historic cost. Deprecation only commences when the asset is available for use.

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## Section 7: Classification and identification of Property, Plant and Equipment

### 7.1 Classification

In compliance with the requirements of National Treasury and accounting standards the Chief Financial Officer shall ensure that all fixed assets are classified under the following headings and Heads of department shall in writing provide the Chief Financial Officer with such information and assistance as is required to compile a proper classification:

#### (a) Property, Plant and Equipment

- Land (not held as investment assets);
- Buildings excluding buildings classified as investment assets, buildings classified as Heritage assets and buildings utilised in contributing to the community's well-being (Clinics, libraries etc).
- Infrastructure assets are defined as any asset that is part of a network of similar assets. These assets usually display some or all of the following characteristics:
  - They are part of a system or network,
  - They are specialized in nature and do not have alternative uses,
  - They are immovable, and
  - They may be subject to constraints on disposal.

Examples are roads, water reticulation schemes, sewerage purification and trunk mains, transport terminals and car parks. Infrastructure can be considered as a single asset or more usefully as a collection of different assets. Each individual asset shall be measured at its own cost and own lifespan, which will influence the depreciation of such an asset.

- Community assets are defined as any asset that contributes to the community's well-being. Examples are parks, libraries and fire stations.
- Heritage assets are defined as culturally significant resources. Examples are works of art, historical buildings and statues.
- Capital Finance Lease assets are defined as assets financed by a Finance Lease if it is identified as such in terms of the requirements of GRAP 13.
- Biological assets are defined as biological assets which are living animals or plants and agricultural produce which is the harvested product of the biological assets.
- Other assets are defined as assets utilised in normal operations. Examples are plant and equipment, motor vehicles and furniture and fittings
- Water Meters  
(MMM\_Water Meter\_Methodology\_Valuation V1 09) for the detailed approach applied to value water meters.
  - Water Meters are accounted for separately using the revaluation model.
  - Conventional Meters: Valuation will be based on units consumed, calculated as a percentage of the Economic Useful Life (EUL) expressed in units of consumption. Where the reading of a water meter in use exceeds the EUL, a minimum remaining useful life of 3 years will apply.
  - Pre-paid and AMR Meters: Valuation will be based on installation date and other supporting detail.
  - Capital Spares: Water meters kept in stock will be accounted for at actual cost. No depreciation will be applied on capital spares.

- 
- Water Meters installed but not used for their intended purpose (measuring consumption for billing purposes) will be valued at R0.

(b) Investment Property

- Investment properties are defined as properties that are acquired/held for economic and capital gains. Examples are office parks and undeveloped land acquired for the purpose of resale in future years.
- The Chief Financial Officer shall adhere to the classifications indicated in the annexure on fixed asset lives (see Annexure A below), and in the case of a fixed asset not appearing in the annexure shall use the classification applicable to the asset most closely comparable to the asset in question.

## **7.2 Identification**

- 7.2.1 The Municipal Manager shall ensure that the municipality maintains a fixed asset identification system which shall be operated in conjunction with its computerised fixed asset register.
- 7.2.2 The identification system shall be determined by the Municipal Manager, acting in consultation with the Chief Financial Officer and other Heads of department, and shall comply with any legal prescriptions, as well as any requirements of the Auditor-General, and shall be decided upon within the context of the municipality's budget.
- 7.2.3 Every Head of department shall ensure that the asset identification system approved for the municipality is scrupulously applied in respect of all fixed and movable assets controlled or used by the Department in question.

## **7.3 Verification**

- 7.3.1 The Asset Management Division shall at least once during every financial year provide all Heads of department with a comprehensive list of assets which is registered under their control.
- 7.3.2 Every Head of department shall be responsible for verifying this list with the assets under their control and investigate any discrepancies arising out of the asset verification exercise. The Head of department will be required to sign and date a declaration stating that the list of assets verified for his/her Department is complete & accurate except for the discrepancies as reported to the Asset Management Division.

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#### **7.4 Safekeeping**

- 7.4.1 Section 63 of the Municipal Financial Management Act (Act no 56 2003) determines that the accounting officer of a municipality is responsible for the management of the assets of the municipality, including the safeguarding and the maintenance of those assets.
- 7.4.2 Section 78 of the Municipal Financial Management Act (Act no 56 2003) determines each senior manager of a municipality and each official of a municipality exercising financial management responsibilities must take all reasonable steps within their respective areas of responsibility to ensure that the assets and liabilities of the municipality are managed effectively and that assets are safeguarded and maintained to the extent necessary. A senior manager or such official must perform the functions subject to the directions of the accounting officer of the municipality
- 7.4.3 Every Head of department shall be directly responsible for the physical safekeeping of any fixed asset controlled or used by the Department in question.
- 7.4.4 In exercising this responsibility, every Head of department shall adhere to any written directives issued by the Municipal Manager to the Department in question, or generally to all Departments, in regard to the control of or safekeeping of the municipality's fixed assets.

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## Section 8: Heritage Assets

### 8.1 Definition

Heritage assets are assets that have a cultural, environmental, historical, natural, scientific, technological or artistic significance and are held indefinitely for the benefit of present and future generations. Examples are works of art, conservation areas, historical buildings and statues.

### 8.2 Recognition and Disclosure of Heritage assets

8.2.1 The municipality shall choose as its accounting policy either the cost model or the revaluation model and shall apply that policy to an entire class of heritage assets.

8.2.2 Where no evidence is available to determine the market value in an active market of a heritage asset, a valuation technique may be used to determine its fair value. Valuation techniques include using recent arm's length market transactions if available. In the case of specialised heritage buildings and other man-made heritage structures, such as monuments, the municipality may need to determine fair value by using a replacement cost approach.

8.2.3 If the municipality is unable to determine the fair value due to market-determined prices or values that are unavailable and alternative estimates of fair value are determined to be clearly unreliable, the heritage asset shall be measured using the cost model.

### 8.3 Assets on Loan

When the municipality agrees to provide assets on a loan basis to another organisation/party for example "Artworks" at the museum or any other asset that meets the definition of a heritage asset a loan agreement must be entered in to with the relevant party. The agreement must clearly indicate the location where the asset will be kept, the period of the loan, any special arrangements like insurance and security measures and any other arrangements that might be required.

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## **Section 9: Donated/Bequeathed and Developer created Assets**

### **9.1 Definition**

An item donated or bequeathed to the municipality or acquired by means of an exchange of assets between the municipality and one or more other parties shall be recorded in the fixed asset register only if it subscribes to the definition of an asset as set out in section 5 above.

Developer-created assets are immovable assets created by private developers that are transferred to the municipality. These assets are deemed to be ready for use when a Service Certificate is issued by the Engineering Services Department.

### **9.2 Disclosure of Donated/Bequeathed and Developer created Assets**

Donated and Developer created assets will be disclosed in the Statement of Financial Position at fair value less accumulated depreciation at date of acquisition. Fair value being what the asset would cost in the open market at the date of acquisition. If there is no open market for such assets the depreciated replacement value will be applied to determine fair value.

The transaction of acquisition will reflect on the Statement of Changes to Net Assets as “Assets Donated/Bequeathed”

### **9.3 Budgetary requirements**

The same budget requirements as for other fixed assets are applicable.

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## Section 10: Biological Assets

### 10.1 Definitions

Biological assets are defined as living and productive animals or plants. Agricultural produce is the harvested product of the biological assets.

Agricultural activity is the management by an entity of the biological transformation and harvest of biological assets for:

- (i) sale,
- (ii) distribution at no charge or for a nominal charge; or
- (iii) conversion into agriculture produce or into additional biological assets for sale or distribution at no charge or for a nominal charge.

The measurement below is specifically for biological assets that forms part of an agricultural activity as defined above. All biological assets that does not form part of an agricultural activity, is measured as part of Property, plant and equipment and not in terms of policy as noted below.

The municipality displays wild animals primarily for the conservation of endangered species as well as for education purposes. For the same reason, the municipality also displays orchids in the orchid house which are kept and cared for in the Orchid Greenhouse. These animals is considered to be biological assets (not used in agriculture) due to the fact that these animals is not considered to have an indefinite life, and does not form part of an agricultural activity and therefore should be accounted for in terms of Property, Plant and Equipment.

### 10.2 Measurement

- 10.2.1 A biological asset shall be measured on initial recognition and at each reporting date at its fair value less estimated point-of-sale costs, except for assets which market-determined prices or values are not available and for which alternative estimates of fair value are determined to be clearly unreliable which shall be measured at its cost less any accumulated depreciation and any accumulated impairment losses.
- 10.2.2 Agricultural produce harvested from an entity's biological assets shall be measured at its fair value less estimated point-of-sale costs at the point of harvest.
- 10.2.3 Records of the details of biological assets shall be kept in a separate section of the fixed asset register or in a separate accounting record altogether and the municipality must provide a quantified description of each group of biological assets, distinguishing between consumable and bearer biological assets or between mature and immature biological assets, as appropriate.

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### **10.3 General**

- 10.3.1 If any agricultural asset is lost, stolen or destroyed, the matter, if material, shall be reported in writing by the Head of department concerned in exactly the same manner as though the asset were an ordinary fixed asset.
- 10.3.2 If the municipality's investment in biological assets does represent a material part of its financial activities, the Chief Financial Officer, in consultation with the Head of the department concerned, shall ensure that expert valuations are done at such more frequent intervals as the Council shall deem appropriate. Such valuations shall then account for losses, sales, acquisitions and other changes to the composition of the biological assets concerned.
- 10.3.3 The Departments shall annually insure the municipality's biological assets, provided the Council considers such insurance desirable and affordable.
- 10.3.4 When the municipality agrees to provide assets on a loan basis to another organisation /party for example "Zoo animals" or any other asset that meets the definition of an biological asset, an loan agreement must be entered in to with the relevant party, clearly indicating the location where the asset will be kept, the period of the loan, any special arrangements like insurance and security measures and any other arrangements that might be required.



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## Section 11: Intangible Assets

### 11.1 Definition

Items belonging to the category 'intangible' do not have a physical form and meets the identification criterion in the definition of an intangible asset when it:

- 11.1.1 is separable, i.e. is capable of being separated or divided from the municipality and sold, transferred, licensed, rented or exchanged, either individually or together with a related contract, asset or liability;  
or
- 11.1.2 Arises from contractual or other legal rights (excluding rights granted by statute), regardless of whether those rights are transferable or separable from the municipality or from other rights and obligations.

Examples of intangible items are:

- Mineral exploration rights
- Computer software excluding (operational software like windows)
- Licensing rights.
- Servitudes
- Copy and patent rights
- Advertising rights
- Encroachment rights

### 11.2 Recognition and measurement

Intangible items are initially recorded at their cost price. Where an intangible asset is acquired at no cost, or for a nominal cost, the cost shall be its fair value as at date of acquisition. After initial recognition, the municipality shall choose either the cost model or the revaluation model as its accounting policy.

If an intangible asset in a class of revalued intangible assets cannot be revalued because there is no active market for this asset, the asset shall be carried at its cost less any accumulated amortization and impairment losses.

Cost model

An intangible asset shall be carried at its cost less any accumulated amortisation and any accumulated impairment losses.

Revaluation model

An intangible asset shall be carried at a revalued amount, being its fair value at the date of the revaluation less any subsequent accumulated amortization and any subsequent accumulated impairment losses.

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### 11.3 Useful life

The municipality shall assess whether the useful life or service potential of an intangible asset is finite or indefinite and, if finite, the length of, or number of production or similar units constituting, that useful life. An intangible asset shall be regarded by the entity as having an indefinite useful life when, based on an analysis of all of the relevant factors, there is no foreseeable limit to the period over which the asset is expected to generate net cash inflows or service potential for the entity.

An intangible asset with a finite useful life is amortised and an intangible asset with an indefinite useful life is not.

### 11.4 Retirements and disposals

An intangible asset shall be de-recognised on disposal; or when no more future economic benefits or service potential are expected from its use or disposal.

### 11.5 Review of useful life assessment

The useful life of an intangible asset that is not being amortised shall be reviewed each period to determine whether events and circumstances continue to support an indefinite useful life assessment for that asset.

### 11.6 Servitudes

Servitudes are rights granted by a property owner to another person or entity to use the land for a certain purpose. Servitudes may be acquired through an agreement between parties, court order, statute or other means.

a) Servitudes created by way of legislation

The Municipality receive certain rights regarding the creation of servitudes through legislation e.g. servitudes registered over certain parts of the land that falls within the boundaries of a proclaimed township to install infrastructure to provide basic services. No compensation is payable to the landowner for servitudes granted to the municipality in terms of legislation.

Servitudes granted under these conditions do not meet the 'identifiable' criteria because:

- Servitudes cannot be sold, transferred, rented or exchanged freely and are not separable from the municipality
- Servitudes arise from rights granted in statute and are specifically excluded from the 'identifiable' criteria (refer to the section on Identification for more detail).

The cost incurred to register these servitudes will be expensed in accordance with GRAP 31.

b) Servitudes created by way of acquisition (either by agreement or expropriation)

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The municipality may need a specific piece of land to install infrastructure, e.g. water power cables. Where the landowner is compensated for the rights received associated with the land, the registered servitude may be accounted for as an intangible asset. Servitudes created under these conditions meet the 'identifiable' criteria as they arise from contractual or other legal rights that are acquired through a binding arrangement.

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## Section 12: Capitalisation criteria

### 12.1 All asset acquisitions that complies with the definition of PPE.

- All items of PPE acquired that comply with the fixed asset definition must be capitalised in the FAR at cost and be provided for on the capital budget.
- Movable assets will be bar-coded
- Infrastructure assets acquired will be componentised based and subject to the submission of the information contained in the following documents:
  - a) Project Status Control Certificate – PSCC (Please refer to Annexure I)
  - b) Completion Certificates
  - c) Completion Reports, also referred to Close-Out Report/s
  - d) As-Built drawings (See Annexure J for Minimum Requirements
  - e) Final adjusted Bill of Quantities
- Project documentation referred to above must be submitted to the MMM Project Manager via email or any other electronic means deemed necessary to allow the full receipt of all project documentation (Dropbox, Onedrive, Fileshare, etc) within the prescribed timeframes.
- The MMM will provide a data portal for the electronic submission/upload of project documentation. PSP's must submit all project related documentation in the prescribed format to this portal.
- In the absence of all or any of these documents, the relevant department have to complete and submit a **Capitalisation Certificate** in the prescribed format (Annexure G). The existence of these assets must be confirmed prior to capitalisation.

#### 12.1.1 Project Status Control Certificate – PSCC

##### 12.1.1.1 Purpose

The purpose of this certificate is to:

- a) Avoid or minimise discrepancies with:
  - Payment Certificates (PC) and Fee Accounts (FA) not submitted to finance at year end for payment or accrual
  - Payment certificates and/or credit notes not submitted by the PSPs but included in close-out reports submitted to the AGSA.
  - Value of work and retention reflected on payment certificates submitted not reconciled with project information kept by the PSP;
  - Poor communication between Asset Management, PMs and PSPs regarding the stage of completion of projects or portions thereof regarded as ready or use/in use
- b) Obtain confirmation on a quarterly basis from the PMs and PSPs on the following matters:
  - The Status of Completion

- 
- The stage of completion reported as WIP or Completed in the specified quarter
  - The date practical completion was reached
  - In the event of the project not yet ready for practical completion, a tentative indication of when practical completion will be reached.
  - Whether or not the required supporting documentation were submitted to the municipality
  - The value of work certified on the project
  - That the value of work was confirmed by the PM and agrees with payment certificates and fee accounts submitted and paid/accrued
  - Whether or not the project can be capitalised in phases and, if so, whether or not the spending on each phase can be determined reliably
  - Whether or not the asset is ready for use and has been handed over to the municipality

#### 12.1.1.2 Responsibility

It is the responsibility of the Project Manager (PM) to ensure that the PSC Certificate is completed and certified as correct.

PSC Certificate must be completed in respect of each and every project and submitted to the Asset Management Section on a quarterly basis.

(Please refer to Annexure I)

#### 12.1.1.3 Timeframe for Submission

PSC Certificates must be submitted at the end of each quarter or when a significant milestone is reached on the project such as completion, termination, practical completion, etc.

### 12.1.2 Completion Certificates

The Practical Completion Certificate and Final Completion Certificate will be in accordance with the Pro Forma 'Certificate of Completion' as per the latest version of the General Conditions of Contract for Construction Works.

The Practical Completion Certificate will be used for the purpose of capitalisation as it indicates the practical in-use status of the asset.

#### 12.1.2.1 Timeframe for Submission

Practical Completion Certificate must be submitted as soon as 'Practical Completion' is reached or the assets are in use.

### 12.1.3 Completion Reports

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The Completion Report also referred to a Close-Out Report must be in accordance with best practice and at least in line with the CIDB pro forma report. In addition, it must at least contain the following headings:

- Project brief, description and locality
  - A concise and accurate description of the project brief, scope of works, project extent, description of infrastructure that is either newly built or existing infrastructure that is upgraded, rehabilitated or augmented;
  - An accurate project locality map clearly showing the extent of the project
  - Added to this, a photographic report of the final implemented infrastructure as an annexure to the report, clearly showing the described extents of point above, where applicable or reasonably practical
- Summary of items constructed
  - A detailed summary, extracted from the final BOQ with at least the quantity, type and short description of the high-level infrastructure components created, for example:
    - *1,500m of 160mm diameter uPVC class 12 Potable Water Pipeline*
    - *1,800m of security fence with barb wire*
    - *1,000m<sup>2</sup> of 80mm interlocking pavers*
    - *Installation of 2 x 50kW centrifugal pump*
  - This must correlate with the as-built drawings and final BOQ
- Outline of significant events
  - Outline any events that had a significant impact on the project outcomes
- Time management
  - Baseline Gantt chart
    - Provide a chart indicating the attainment of key milestones achieved from the initiation of the project design through to the finalization of the project report (see Table 1.2 of Module 5)
  - Extension of time granted
    - Briefly describe the slippages from the project programme and the reasons therefore in the Gantt chart)
- Financial management
  - Budget vs Actual Expenditure
    - Provide a comparison between budget and actual expenditure from inception to completion. Construction cost, professional fees, site supervisions, disbursements etc.
  - Proposed vs Actual Cash flow
  - Variations to contract
- Quality Management
- Project steering committee
- Employment
- Training provided
- Specific goals relating to preferences
- Community liaison
- Outstanding disputes
- Record drawings, operating manuals and the like
- Suggestions for improvements to projects of a similar nature

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#### 12.1.3.1 Timeframe for submission

Close-Out Reports must be submitted as stipulated in the Consultancy Agreement with the PSP or within four (4) weeks of the 'Practical Completion' date.

The Final BOQ must also be submitted within the same timeframes.

#### 12.1.4 As-built drawings

As a condition to achieving final completion for each project, the PSP will provide, with the assistance from the contractor, a set of

- (i) 2x hard copy As-Built Drawings,
- (ii) one set of PDF drawings which should be an electronic duplication of the replication of the hardcopy drawing; and
- (iii) an electronic copy of the AutoCAD or similar computer aided drawing software package drawings in native form that are georeferenced in WGS84 with the appropriate geospatial projection.

The minimum as-built drawing standards are attached hereto under **Annexure J**.

A review process of the drawings will take place, also outlined in the minimum as-built drawing standard as a process flow chart. If the minimum standards and the requirements of this policy is not adhered to the project will be referred to the MMM Project Manager for review.

##### 12.1.4.1 Timeframe for Submission

As stipulated in the Consultancy Agreement with the PSP or within four (4) weeks of the 'Practical Completion' date

#### 12.2 Group Assets

Group assets are assets of a similar nature and usually purchased as a group.

Group items identified are:

- Water and electricity meters;
- Library books

All group asset purchases will not be tagged but must be capitalised on the Fixed Asset Register as a group and provided for on the capital budget.

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### **12.3 Acquisition of property, plant and equipment**

The Property, Plant and Equipment acquisition phase take effect through outright purchase or development/construction. Such Property, Plant and Equipment acquisitions must only be funded out of capital budget votes in line with IDP and NOT THROUGH OPERATIONAL BUDGET.

### **12.4 Physical Receipting and Management**

The Head of Department or his/her nominee must:

- Ensure that the purchase of property, plant of equipment complies with all MMM's policies and procedures.
- Ensure all movable assets received into their stewardship are appropriately identified and safeguarded or prevented from inappropriate usage or loss. This will include appropriate control over the physical access to these assets and regular stock takes to ensure any losses do not occur. Any known losses should be immediately reported to the CFO (please refer to section 17).

### **12.5 Date of acquisition**

The date of acquisition of property, plant and equipment is deemed to be the time when legal title and control passes to the Municipality.

### **12.6 Donations**

The CFO must be informed about any donation to the municipality. Where an item of property plant and equipment is acquired at no cost, or for a nominal cost, it will be initially measured at its fair value as at the date of acquisition and included in the assets register (if the fair value is greater than the recognition threshold). Where the value of the asset is known, such value shall be included in the register in line with recognition criteria.

It shall be the responsibility of the Head of Department or his/her nominee to notify the CFO of such assets for capitalisation purposes.

### **12.7 Transfer of property plant and equipment**

#### **12.7.1 Permanent transfers to another Department**

The Head of Department retains managerial accountability and control for a particular asset unless;

- Another Head of Department agrees in writing to accept responsibility for that assets, and
- The CFO or his/her nominee endorses this transfer.

The Finance Department appropriately amends the Assets Register for all approved transfers.

The new Head of Department assumes all the accountabilities of the previous Head of Department.



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### 12.7.2 Relocation or Re-assignment of Property, Plant or Equipment

The Head of Department must ensure that the asset is appropriately safeguarded for loss, damage or misuse wherever it is located. Safeguarding includes ensuring reasonable physical restrictions.

The Head of Department must advise the CFO whenever an asset is permanently relocated or re-assigned from the location (or base) or cost centre recorded in the Asset Register.

The Head of Department must advise the CFO whenever an asset is temporarily relocated or re-assigned from the location (or base) or cost centre recorded in the Assets Register. In this case, the Head of Department must also advise the CFO when this asset is returned.

### 12.7.3 Retention

Usually an amount of money is held back by the client to ensure that the contractor does his work properly. This retention money is due to the contractor, as the work is complete, but will not be paid out. This is to ensure that the contractor corrects any defective work. Normally retention money is paid to the contractor after the end of the 'defects liability period'.

Defects liability period:

This is the period in which the contractor is required to correct any defects that may be discovered and can vary between 3 to 12 months.

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**Section 13: Calculation of capitalisation cost of assets****13.1 Initial Cost**

An item of property, plant and equipment that qualifies for recognition as an asset should initially be measured at its cost. The cost of an item of property, plant and equipment comprises its purchase price, including import duties and non-refundable purchase taxes, and any directly attributable costs of bringing the asset to working condition for its intended use. Any trade discounts and rebates are deducted in arriving at the purchase price. Examples of directly attributable costs are:

- (a) The cost of site preparation,
- (b) Initial delivery and handling costs,
- (c) Installation and assembly costs, and
- (d) Professional fees such as for architects and engineers that is directly applicable to the project;
- (e) Feasibility studies will only be capitalised as cost if the capital project, for which this study was applied, will be executed. Up to the starting time of this capital project the cost of this study will be carried as work in progress. If no capital project will flow from this study the cost will be adjusted to the accumulated surplus account.
- (f) The initial estimated costs of dismantling and removing the item and restoring the site on which it is located, to the extent that it is recognised as a provision.
- (g) Administrative and other general overhead costs are only a component of cost if it can be directly attributed to the acquisition or construction of the asset without which the asset could not have been brought to working condition.
- (h) Interest on external loans that are directly attributable to the acquisition, construction or production of a qualifying asset are that interest that would have been avoided if the expenditure on the qualifying asset had not been made.

**13.2 Costs incurred on existing PPE subsequent to the initial recording of the cost price**

Assets are often modified during their life. There are two main types of modification:

**Enhancements / Rehabilitation / Refurbishment:**

This is where work is carried out on the asset that increases its service potential. Enhancements normally increase the service potential of the asset, and or may extend an asset's useful life and result in an increase in value.

Rehabilitation and Refurbishment includes activities that are required due to neglect or unsatisfactory maintenance or degeneration of an asset. The action implies that the asset is restored to its original condition enhancing the capacity and value of an existing asset that has become inoperative due to the deterioration of the asset. These costs normally become necessary during the life of an asset due to a change in use of the asset or technological advances.

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Disbursements of this nature relating to an asset, which has already been recognised in the financial statements, should be added to the carrying amount of that asset. The value of the asset is thus increased when it is probable that future economic benefits or service potential will flow to the municipality over the remaining life of the asset.

To be classified as capital spending, the expenditure must lead to at least one of the following economic effects:

- (a) Modification of an item or plant to **extend its useful life**, including an **increase in its capacity**;
- (b) Upgrading machine parts to achieve a substantial improvement in the quality of output;
- (c) Adoption of new production processes enabling a substantial reduction in previously assessed operating costs;
- (d) Extensions or modifications to improve functionality such as installing computer cabling or increasing the speed of a lift;
- (e) Improve the performance of the asset;

**Corrective Maintenance / Preventative Maintenance / Refurbishment:**

Expenditure related to repairs or maintenance of property, plant and equipment are made to restore or maintain the future economic benefits or service potential that a municipality can expect from the asset.

Refurbishment of works does not extend functionality or the life of the asset but are necessary for the planned life to be achieved. In such cases, the value of the asset is not affected, and the costs of the refurbishment are regarded as operating expense in the statement of financial performance.

Thus, if the improved performance or extended life of an asset is not beyond what has originally been estimated for the asset and the expenditure is only to bring performance back to the level that is normally expected for the asset the expenditure will be considered an operating expense.

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## Section 14: Residual Values

### 14.1 Definition

The residual value of an asset is the estimated amount that the municipality would currently obtain from disposal of the asset, after deducting the estimated costs of disposal, if the asset were already of the age and in the condition expected at the end of its useful life.

### 14.2 Determine residual value

Residual value will be determined on PPE where practicable in terms of the definition as stated above.

The residual value of an asset may increase to an amount equal to or greater than the asset's carrying amount. If it does, the asset's depreciation charge is zero unless and until its residual value subsequently decreases to an amount below the asset's carrying amount.

The residual value and an asset shall be reviewed at least at each reporting date (annually) and, if expectations differ from previous estimates, the change(s) shall be accounted for as a change in an accounting estimate

Most assets have no residual values. Assets with residual values are indicated in Annexure A

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## Section 15: Depreciation of assets

### 15.1 Definition

Depreciation is the accounting process used to allocate the cost to particular accounting periods of 'using up' the service potential of the asset over its useful life.

Note: depreciation is not a method of financing the replacement of assets and is necessary even when assets are revalued every year (excluding valuation of biological assets).

### 15.2 Which assets must be depreciated

All assets, except land, investment property, heritage assets and biological assets, shall be depreciated - or amortised in the case of intangible assets.

Although typically disclosed together, land and buildings are separable assets and because land normally has unlimited life it is not depreciated whilst buildings are. Heritage assets such as works of art, historical buildings and statues are also not normally depreciated. The reason is that these assets have cultural significance and as such are likely to be preserved for the benefit of future generations. It should therefore be impossible to determine their useful lives.

### 15.3 Determining useful lives of assets

15.3.1 The Chief Financial Officer shall assign a useful operating life to each depreciable asset recorded on the municipality's Fixed Asset Register. In determining such a useful life the Chief Financial Officer shall adhere to the useful lives set out in the annexure to this document (refer Annexure A).

15.3.2 The useful lives in Annexure A will be determined considering all the following factors:

- Expected usage of the asset. Usage is assessed by reference to the asset's expected capacity or physical output.
- expected physical wear and tear, which depends on operational factors such as the number of shifts for which the asset is to be used and the repair and maintenance programme, and the care and maintenance of the asset while idle.
- technical or commercial obsolescence arising from changes or improvements in production, or from a change in the market demand for the product or service output of the asset.
- legal or similar limits on the use of the asset, such as the expiry dates of related leases.
- the recommendation of the heads of the Departments involved.

15.3.3 In the case of a fixed asset which is not listed in this annexure, the Chief Financial Officer shall determine a useful operating life, if necessary in consultation with the Head of the department who shall control or use the fixed asset in question, and shall be guided in determining such useful life either by the useful lives assigned in the annexure to the fixed asset most closely comparable to the asset in question or by any appropriate statement of generally recognised accounting practice (GRAP).

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15.3.4 The useful life of an asset shall be reviewed at least at each reporting date. A minimum RUL of three years (current financial year plus two outer years), will be assigned to assets with a RUL of less than two years. The following conditions will apply:

- Asset must be in use,
- The asset must not be earmarked for replacement within the current or outer two financial years of the Medium-Term Revenue and Expenditure Framework

The change in estimate must be disclosed in the Annual Financial Statements as prescribed by the Generally Recognised Accounting Standards (GRAP 3)

15.3.5 The amortisation period for an intangible asset with a finite useful life shall be reviewed at least at each financial year-end. If the expected useful life of the asset is different from previous estimates, the amortisation period shall be changed accordingly.

15.3.6 Only the Chief Financial Officer may amend the useful operating life assigned to any item of property, plant and equipment, and when any material amendments occur the Chief Financial Officer shall inform the Council of such amendments.

15.3.7 The Chief Financial Officer shall amend the useful operating life assigned to any asset –after recommendation from the affected Department - if it becomes known that such asset has been materially impaired or improperly maintained to such an extent that its useful operating life cycle will not be attained.

15.3.8 If the value of an item of property, plant and equipment has been diminished to such an extent that it has no or a negligible further useful operating life or value such fixed asset shall be fully depreciated in the financial year in which such diminution in value occurs. The additional depreciation expenses shall be debited to the Department's expense vote controlling or using the fixed asset in question.

## **15.4 Depreciation calculation**

### **Tangible assets**

The municipality considers from the following different methods of depreciation and applies the most appropriate method of depreciation to best reflect the pattern of use of an asset. These methods are:

- a. The straight-line depreciation method whereby items of property, plant and equipment are depreciated on a constant or uniform amount over their estimated useful life. For example, if a vehicle is purchased and has an estimated useful life of 5 years, each month 1/60th of the vehicle will be depreciated.
- b. The sum of unit's method whereby units consumed against total unit consumable for an asset are reflected as depreciation. For example, 50 graves have been sold for the month in the cemetery which can produce 1000 graves. The depreciation will then be 50/1000 times the cost of the cemetery capitalised.

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- c. The diminishing balance method whereby a percentage of the cost will be depreciated every year. For example, an asset is to be depreciated at 10% per period on the carrying value.

Depreciation is an expense both calculated and debited on a monthly basis against the appropriate line item in the Department or vote in which the item of property, plant and equipment is used or consumed and should be recognised as such.

Depreciation shall be charged from the calendar month following the month in which an item of property, plant and equipment is available for use and will continue until the accumulated depreciation equals the cost or valuation amount of the respective item of property, plant and equipment or the item is disposed or written off.

When depreciation is calculated, a corresponding accumulated depreciation account is created. The accumulated depreciation account is a statement of financial position item (it is an asset provision). This account balance reflects the depreciation charge that has been expensed or capitalised since the asset was available for use. The balance on the accumulated depreciation account can never exceed the cost or valuation of the specific item of property, plant and equipment to which it relates.

### **Intangible assets**

#### **Amortisation period and amortisation method**

- a. Finite useful life

The depreciable amount of an intangible asset with a finite useful life shall be allocated on a systematic basis over its useful life. Amortisation shall begin when the asset is available for use, i.e. when it is in the location and condition necessary for it to be capable of operating in the manner intended by management. Amortisation shall cease at the earlier of the date that the asset is classified as held for sale (or included in a disposal group that is classified as held for sale) and the date that the asset is derecognised. The amortisation method used shall reflect the pattern in which the asset's future economic benefits are expected to be consumed by the municipality. If that pattern cannot be determined reliably, the straight-line method shall be used. The amortisation charge for each period shall be recognised in profit or loss unless another Standard permits or requires it to be included in the carrying amount of another asset.

- b. Infinite useful life

No amortisation will take place.

- The amortisation method for an intangible asset with a finite useful life shall be reviewed at least at each financial year-end. If there has been a change in the expected pattern of consumption of the future economic benefits embodied in the asset, the amortisation method shall be changed to reflect the changed pattern.

## **15.5 Budget requirement**

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Each Head of department, acting in consultation with the Chief Financial Officer shall ensure that reasonable budgetary provision is made annually for the depreciation of all applicable assets controlled or used by the Department in question or expected to be so controlled or used during the ensuing three financial years.

In calculating this provision, the following must be taken into consideration:

Assets in commission with useful life that will span the budget period or a portion thereof:

- full 12 months per budget year unless fully depreciated before the final budget year;
- Expected assets that will be commissioned in the current year of operations;
- Expected assets that will be commissioned in the ensuing three years;
- pro rata for commission year and full 12 months for ensuing years on commission year.

The procedures to be followed in accounting and budgeting for the amortisation of intangible assets shall be identical to those applying to the depreciation of property, plant and equipment.

## **15.6 Offset Depreciation**

Assets financed by Government Grants or Public Contributions

The principle of government grant and public contribution funded assets is that there should be no capital cost included in tariffs from using this source of financing.

Funding from Government Grants and Public Contributions, equal to the amount used to finance the asset are directly transferred to the operating account as revenue. This transfer will reflect in the accumulated surplus as offset of depreciation against future depreciation charges on these assets.

Assets re-valued

An amount equal to the annual depreciation portion of the re-valued assets should be transferred from the Revaluation reserve to the Accumulated surplus or deficit.

## **15.7 Disclosure requirements**

### **In the accounting policy notes**

- The depreciation methods used and the depreciation rates or useful lives.

### **On the Statement of Financial Position**

- The depreciation is part of the Net Property, Plant and Equipment amount.

### **On the Statement of Financial Performance.**

- The depreciation charged in arriving at the net surplus or deficit disclosed in the income statement.



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**In the notes to the statements**

- The gross carrying amount and the accumulated depreciation at the beginning and end of the period in respect of each class of property, plant and equipment, together with all the other movements on the asset accounts.

**In Annexure B and C to the financial statements**

- These Annexure disclose a more detailed analysis of the various classes of assets (Annexure B) as well as a detailed analysis on the allocation of assets to the various Departments and functions (Annexure C). These Annexure must show a reconciliation of the carrying amount at the beginning and end of the period showing:
  - Additions
  - Disposals
  - Acquisitions through business combinations
  - Increases or decreases resulting from revaluations
  - Reductions in carrying amount (impairment losses)
  - Depreciation
  - Other movements

When property, plant and equipment is disposed of by selling or when it is destroyed the asset values must be offset against the proceeds, if any. If this item was previously revalued and there is still a balance left regarding this item on the Revaluation reserve, this balance must then be transferred to the Accumulated Surplus/Deficit account.

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## **Section 16: Revaluation of fixed assets**

The municipality must adopt the cost or revaluation method at re-measuring PPE. In adopting the revaluation method, the following will be relevant:

### **16.1 Revaluation process**

In adopting the revaluation method, a class of PPE, after initial recognition, whose fair value can be measured reliably, shall be carried at a revalued amount, being its fair value at the date of the revaluation less any subsequent accumulated depreciation and subsequent accumulated impairment losses.

Revaluations shall be made with sufficient regularity to ensure that the carrying amount does not differ materially from that which would be determined using fair value at the reporting date.

All land and buildings recorded in the asset register shall be revalued with the adoption by the municipality of each new valuation roll (or, if the land and buildings concerned fall within the boundary of another Municipality, with the adoption by such Municipality of each new valuation roll).

The CFO shall adjust the carrying value of the land and buildings concerned to reflect in each instance the value of the asset as recorded in the valuation roll, provided the CFO is satisfied that such value reflects the fair value of the asset concerned.

### **16.2 Revaluation Reserve**

The Chief Financial Officer shall also, where applicable, create a revaluation reserve for fixed assets equal to the difference between the value as recorded in the valuation roll and the carrying value of the fixed asset before the adjustment in question.

### **16.3 Depreciation of revalued property**

The fixed asset concerned shall, in the case of buildings, thereafter be depreciated on the basis of its revalued amount, over its remaining useful operating life, and such increased depreciation expenses shall be budgeted for and debited against the appropriate line item in the Department's vote controlling or using the fixed asset in question.

The Chief Financial Officer shall ensure that an amount equal to the difference between the new (enhanced) monthly depreciation expense and the depreciation expenses determined in respect of such fixed asset before the revaluation in question is transferred each month from the revaluation reserve to the municipality's appropriation account. An adjustment of the aggregate transfer shall be made at the end of each financial year, if necessary.

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#### **16.4 Disclosure of revalued property**

Revalued PPE shall be carried in the fixed asset register, and recorded in the annual financial statements, at their revalued amount, less accumulated depreciation.

If the amount recorded on the valuation roll is less than the carrying value of the asset recorded in the assets register, the CFO shall adjust the carrying value of such asset by increasing the accumulated depreciation of the asset in question by an amount sufficient to adjust the carrying value to the value as recorded in the valuation roll. Such additional depreciation expenses shall form a charge, in the first instance, against the balance in any revaluation reserve previously created for such asset, and to the extent that such balance is insufficient to bear the charge concerned, an immediate additional charge against the Department or vote controlling or using the asset in question.

Revalued land and buildings shall be carried in the assets register, and recorded in the annual financial statements, at their revalued amount, less accumulated depreciation (in the case of buildings).

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## Section 17: Disposal of assets

### 17.1 Disposal

In compliance with the principles and prescriptions of the Municipal Finance Management Act the transfer of ownership of any fixed asset shall be fair, equitable, transparent, competitive and consistent with the municipality's supply chain management policy.

- 17.1.1 Every Head of department shall report in writing to the Chief Financial Officer annually on all fixed assets controlled or used by the Department concerned which such Head of Department wishes to dispose of such assets by public auction or public tender within the period up to 30 June of the next financial year. The Chief Financial Officer shall thereafter consolidate the requests received from the various Departments and shall promptly report such consolidated information to the Municipal Manager (by 30 April of the financial year), as the case may be, recommending the process of disposal to be adopted. In the case of land and property disposals, the Chief Financial Officer and Head of Department: Planning shall consolidate the request for disposal through the Municipal Manager recommend the process to Council.
- 17.1.2 Any items declared obsolete or damaged will be handed in to the Supply Chain Management Division for safekeeping. No items will be received by Supply Chain Management Division without a completed asset disposal form counter signed by the Asset Management Division, describing the status of the item and the reason for writing-off the item.
- 17.1.3 Each Department must take the necessary steps to ensure that all their obsolete or damaged assets are disposed of in the correct and approved manner. It is the responsibility of each Department to ensure that all such assets to be disposed of are delivered to and received at the Supply Chain Management Division.
- 17.1.4 The Council shall ensure that the disposal of any fixed asset takes place in compliance with Section 14 of the Municipal Finance Management Act 2004 and the Supply Chain Management Policy.
- 17.1.5 Every Head of department shall ensure that any incident of loss, theft, destruction, or material impairment of any fixed asset controlled or used by the Department in question is promptly reported in writing to the Insurance Section, the Asset Management Division, the internal auditor, and, in cases of suspected theft or malicious damage, also to the South African Police Services. Once the fixed assets are disposed of, the Chief Financial Officer shall remove the relevant records from the fixed asset register.
- 17.1.6 Transfer of fixed assets to other municipalities, municipal entities (whether or not under the municipality's sole or partial control) or other organs of state shall take place in accordance with the above procedures, except that the process of disposal shall be by private treaty.
- 17.1.7 All assets to be disposed of in the next financial period is to be transferred to the Non-current assets "held for sale" account, revalued to the lower of cost and expected selling price and to be disclosed on the Statement of Financial Position as Non-current assets held for sale under Current assets and not as Property, plant and equipment under Non-current assets.

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## 17.2 Donations

17.2.1 The following types of organisations shall be considered for donations:

- a) Registered welfare or Charitable Organisations
- b) Schools catering for handicapped and disabled
- c) Schools for special learners
- d) Educational institutions initiating programmes for the benefit of the community of the Mangaung Metropolitan Municipality.

17.2.2 Donation of the following asset types may be considered:

- a) Obsolete furniture and redundant equipment; and
- b) Computer equipment

17.2.3 The following procedures shall apply:

- A request for Donation of Movable Assets shall be directed to the City Manager of the Mangaung Metropolitan Municipality
- The application shall be accompanied by the following:
  - Motivation with reasons for requesting a donation of a particular asset of the municipality, or existence in the community;
  - Proof of registration of the organisation/institution; and
  - A copy of the applicant's constitution
- Donations must be recommended by the City Manager; for consideration and approval by the Executive Mayor of the Mangaung Metropolitan Municipality in terms of the approved Delegations of Power, Power number B49;
- Approval of the donation by the Accounting Officer must comply with the provisions of section 14(4) of the Municipal Finance Management Act, Act 56 of 2003;
- Donation of Computer equipment will **NOT** be considered unless the matter was considered and recommended by the Information Technology Steering Committee;
- Acceptance of the donation must be submitted to the Office of the City Manager by the applicant, prior to the handover of donated assets.
- Asset Management must be provided with the following documents:
  - Copy of the application as approved by the Executive Mayor;
  - In the case of donated Computer Equipment: IT Steering committee Resolutions;
  - Duly completed Asset Disposal form.
- The Asset Management Division must confirm that the donated assets have been removed from the Fixed Asset Register.

## 17.3 Other write offs

A fixed asset even though fully depreciated shall be written off only on the recommendation of the Head of department controlling or using the asset concerned, and with the final approval of Council.

Every Head of department shall annually report to the Chief Financial Officer on any fixed assets which such Head of department wishes to have written off, stating in full the reason for such recommendation. The Chief Financial Officer shall consolidate all such reports and shall promptly submit a recommendation to the City Manager on the fixed assets to be written off.

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The only reasons for writing off fixed assets, other than the disposal of such fixed assets, shall be the loss, theft, destruction, incorrect capitalizations or material impairment of the fixed asset in question.

#### **17.4 Proceeds /Gain or Loss on disposal of assets**

When assets are disposed of whether by disposal or written off the asset values needs to be readjusted and offset against the proceeds. If the proceeds of the disposal are less than the carrying value recorded in the fixed asset register, such difference shall be recognised as a loss in the cost centre of the Finance Department. If the proceeds of the disposal, on the other hand, are more than the carrying value of the fixed asset concerned, the difference shall be recognised as a gain in the cost centre of the Finance Department.

If this asset has an outstanding balance on the Revaluation Reserve this balance must be transferred to the Accumulated Surplus.

#### **17.5 Disclosure of assets disposed of**

The carrying value of the asset disposed shall be removed from the records and will not reflect on the Statement of Financial Position as part of the balance on Property, Plant and Equipment under Non - Current assets

The gain or loss will be reflected in the Statement of Financial Performance as a gain under Revenue or as a loss under Expenditure.

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## Section 18: Recognition of assets in the financial statements

Recognition is the process of incorporating in the Statement of Financial Position or Statement of Financial Performance, an item that meets the definition and satisfies the criteria for recognition.

Assets are classified into categories as set out in section 7 (Classification of Assets) and the information for each category summarised in a table format is disclosed as:

- a note to the financial statements;
- with a detailed disclosure as an annexure reflecting the movements for the financial year by category and subcategory;
- movements are also reflected on an annexure per Department;
- the net value (carrying value at year-end), for all categories is added together and reflected as a single line item in the statement of financial position.

The failure to recognise such items is not rectified by disclosure of the accounting policies used, or by notes or explanatory material.

To be able to assess the utilisation of assets all assets should be listed once the recognition criteria are met.

An asset item should be recognised in the financial statements if it meets the:

- Probability criteria (it is probable that any future economic benefits or service potential associated with the asset will flow to the municipality);
- Measurement criteria (the asset has a cost or value that can be measured with reliability).

In many cases, cost or value must be estimated. In these circumstances the use of reasonable estimates is an essential part of the preparation of financial statements and does not undermine their reliability. When, however, a reasonable estimate cannot be made, the item is not recognised in the Statement of Financial Position or Statement of Financial Performance.

An item that possesses the essential characteristics of an asset but fails to meet the criteria for recognition may nonetheless warrant disclosure in the notes, explanatory material or in supplementary schedules. This is appropriate when knowledge of the item is considered to be relevant to the evaluation of the financial position, performance and changes in financial position of the municipality by the users of financial statements.

No asset is recognised in the Statement of Financial Position for expenditure incurred where it is improbable that economic benefit or service potential will flow to the municipality beyond the current financial year. Where the probability is low, such a transaction will result in the recognition of an expense in the Statement of Financial Performance.

Where the expenditure has been incurred in connection with an asset already recognised, consideration should be given to the probability that the expense will result in an extension of the asset's estimated useful life. If the probability is high the expense will be added to the value of the asset in the Statement of Financial Position and written off by way of depreciation over the *remaining life* of the asset.

Expenditure incurred on an existing asset that will not extend the useful life or the functionality of the asset, will be reflected in the Statement of Financial Performance as an expense (maintenance).

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Assets may be acquired for safety or environmental reasons. The acquisition of such assets, while not directly increasing the future economic benefits or service potential of any existing asset, may be necessary in order for the municipality to obtain the future economic benefits or service potential from its other assets. When this is the case, such acquisitions of assets qualify for recognition as assets, in that they enable future economic benefits or service potential from related assets to be derived by the municipality in excess of what it could derive if they had not been acquired. However, such assets are only recognised to the extent that the resulting carrying amount of such an asset and related assets does not exceed the total economic benefits or service potential that the municipality expects to recover from their continued use and ultimate disposal.



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## Section 19: Funding Sources

The main sources of finance utilised to acquire assets are:

- Government and other conditional grants.
- Finance leases
- Conditional grants, Subsidies and Public Contributions and Donations
- Cash surplus.
- External Loans

The sources of finance that may be utilised to finance assets are utilised in accordance with the provisions of Section 19 of the Municipal Finance Management Act.

### 19.1 Government and other conditional grants

Whenever a conditional government or other grant for the acquisition of an asset is received a grant creditor is created on receipt of the funds. Once the asset is bought, an amount equal to the cost of the asset is transferred from the unspent grant creditor to the Statement of Financial Performance as revenue.

Unspent conditional grants are reflected on the Statement of Financial Position under current liabilities as Unspent Conditional Grants. These funds always have to be backed by cash. The following conditions are set for the creation and utilisation of these funds:

- The cash which backs up the grant is invested until it is utilised.
- Interest earned on the investment is treated in accordance with grant conditions. If it is payable to the funder it is recorded as part of the creditor. If the conditions are silent on investment interest it is recognized as interest earned in the Statement of Financial Performance and might be allocated, through the Statement of Changes in Net Assets, in part or fully to the unspent portion of the grant if it is so stated in the accounting policy.
- Whenever an asset is acquired from a conditional grant an amount equal to the cost of the asset is transferred from the Unspent grant creditor to the Statement of Financial Performance as revenue.
- The amount spent from this grant, meeting the condition, is transferred to an operational revenue account and reflected on the Statement of Financial Performance. It will then increase the surplus for the year and the accumulated surplus representing an offset depreciation surplus.

Once the asset is available for use, it is included in the FAR and depreciation is calculated based on the relevant useful life of the asset. Depreciation on the asset is then charged to the Statement of Financial Performance as an expense.

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## **19.2 Finance leases**

A lease is classified as a finance lease if it transfers substantially all the risks and rewards incidental to ownership (GRAP 13). A lease is classified as an operating lease if it does not transfer substantially all the risks and rewards incidental to ownership.

## **19.3 Finance lease – As lessee**

### Initial recognition

At the commencement of the lease term, the municipality shall recognise finance leases as assets and liabilities in the statement of financial position at amounts equal to the fair value of the leased property or, if lower, the present value of the minimum lease payments, each determined at the inception of the lease. The discount rate to be used in calculating the present value of the minimum lease payments is the interest rate implicit to the lease, if this is practicable to determine. If it is not determinable, the municipality's incremental borrowing rate shall be used. Any initial direct costs of the municipality are added to the amount recognised as an asset.

### Subsequent measurement

The depreciable assets financed through the finance lease will give rise to a depreciation expense and finance cost which will occur for each accounting period. The depreciation policy for depreciable leased assets shall be consistent with the policy of depreciable owned assets, and the depreciation recognised shall be calculated in accordance with the Standard on Property, Plant and Equipment, GRAP17. If there is no reasonable certainty that MMM will obtain ownership by the end of the lease term, the asset shall be fully depreciated over the shorter of the lease term and its useful life. If there is certainty that MMM will obtain ownership by the end of the lease term, the asset will be fully depreciated over the asset's useful life.

## **19.4 Finance lease – As lessor**

### Initial recognition

MMM shall recognise lease payments receivable under a finance lease as assets in the statement of financial position. MMM shall present such assets as a receivable at an amount equal to the net investment in the lease.

### Subsequent measurement

The recognition of finance revenue shall be based on a pattern reflecting a constant periodic rate of return on MMM's net investment in the finance lease.

The depreciation policy for depreciable leased assets shall be consistent with MMM's normal depreciation policy for similar assets, and depreciation shall be calculated in accordance with the Standard on Property, Plant and Equipment, GRAP 17.

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### **19.5 Donations/Bequests**

The fair value of donated/bequeathed assets must be determined and at receipt or transfer of the assets be allocated to the accumulated surplus account.

Once the asset is available for use, it is included in the FAR and depreciation is calculated based on the relevant useful life of the asset. Depreciation on the asset is then charged to the Statement of Financial Performance as an expense.

### **19.6 Surplus cash**

If there is sufficient surplus cash available assets can be financed directly by allocating this cash for the acquisition of assets. Depreciation charges on these assets will not be offset.

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## Section 20: Impairment Losses

### 20.1 Impairment

The carrying amount (book value) of an item or a group of identical items of property, plant and equipment should be reviewed periodically in order to assess whether the recoverable amount has declined below the carrying amount.

Recoverable amount is the amount that the municipality expects to recover from the future use of an asset, including its residual value on disposal.

When such a decline has occurred, the carrying amount should be reduced to the recoverable amount. The amount of the reduction should be recognized as an expense immediately, unless it reverses a previous revaluation on properties in which case it should be charged to the Revaluation Reserve.

The recoverable amount of individual assets, or groups of identical assets, is determined separately and the carrying amount reduced to recoverable amount on an individual asset, or group of identical assets, basis. However, there may be circumstances when it may not be possible to assess the recoverable amount of an asset on this basis, for example when all of the plant and equipment in a sewerage purification work is used for the same purpose. In such circumstances, the carrying amount of each of the related assets is reduced in proportion to the overall decline in recoverable amount of the smallest grouping of assets for which it is possible to make an assessment of recoverable amount.

Irrespective of whether there is any indication of impairment, an entity shall also test an intangible asset with an indefinite useful life or an intangible asset not yet available for use for impairment annually by comparing its carrying amount with its recoverable amount.

The following may be indicators that an asset has become impaired:

- The item has been damaged.
- The item has become technologically obsolete.
- The item remains idle for a considerable period either prior to it being put into use or during its useful life.
- Land is purchased at market value and is to be utilised for subsidized housing developments, where the subsidy is less than the purchase price.

### 20.2 Example:

An example of where the Municipality has suffered an impairment loss is the purchase of land for an amount of R 5,000,000. The land will be utilised for new subsidized housing developments. If at year end the expectation is that the Municipality will receive only R 1,000,000 by way of subsidies an impairment loss of R 4,000,000 needs to be recognized. The recoverable amount (R 1,000,000) is calculated as being the larger of:

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- Net Selling Price of the land which is the amount obtainable from the sale of the market in an arm's length transaction between knowledgeable, willing parties, less the cost of disposal.
  - Value in use of the land which is the present value of the estimated future net cash inflows expected from the continuing use of the asset and from its disposal at the end of its useful life.

### **20.3 Reversal of an Impairment Loss**

- The same procedures as for the identification of impaired assets are followed if there is an indication that impairment may have been decreased or reversed. If so, the recoverable amount must be added to the carrying value of the asset.
- The life cycle must be adjusted.
- The increased carrying amount due to reversal should not be more than what the depreciated historical cost would have been if the impairment had not been recognised.
- Reversal of an impairment loss is recognised as income in the income statement.
- Depreciation must be adjusted for the remaining life cycle.

### **20.4 Cash-generating and non-cash-generating units**

Cash-generating assets are assets held with the primary objective of generating a commercial return.

A cash-generating unit is the smallest identifiable group of assets held with the primary objective of generating a commercial return that generates cash inflows from continuing use that are largely independent of the cash inflows from other assets or groups of assets.

Non-cash-generating assets are assets other than cash-generating assets.

An asset generates a commercial return when it is deployed in a manner consistent with that adopted by a profit-oriented entity. Holding an asset to generate a "commercial return" indicates that an entity intends to generate positive cash inflows from the asset (or from the cash-generating unit of which the asset is a part) and earn a commercial return that reflects the risk involved in holding the asset.

It is the view of the municipality that the primary objective of holding assets in the public sector is service delivery and not to generate a commercial return. Therefore, even though some assets do generate cash in the same way as profit orientated entities; because the primary objective of holding such assets is service delivery, all assets are non-cash-generating assets.

### **20.5 Impairment on Non-Cash-generating assets**

If the carrying amount of an asset exceeds its recoverable service amount, then an expense (impairment loss) must be recognised.

Recoverable service amount is the higher of a non-cash-generating asset's fair value less costs to sell and its value in use of a non-cash-generating asset.

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Value in use of a non-cash-generating asset is considered to be the present value of the asset's remaining service potential. Three methods can be applied to determine this value (based on availability of data):

- Depreciated replacement cost approach – The replacement cost of an asset is the cost to replace the asset's gross service potential. This cost is depreciated to reflect the asset in its used condition. An asset may be replaced either through reproduction (replication) of the existing asset or through replacement of its gross service potential. The depreciated replacement cost is measured as the reproduction or replacement cost of the asset, whichever is lower, less accumulated depreciation calculated on the basis of such cost, to reflect the already consumed or expired service potential of the asset.
- Restoration cost approach - Under this approach, the present value of the remaining service potential of the asset is determined by subtracting the estimated restoration cost of the asset from the current cost of replacing the remaining service potential of the asset before impairment. The latter cost is usually determined as the depreciated reproduction or replacement cost of the asset, whichever is lower.
- Service units approach - Under this approach, the present value of the remaining service potential of the asset is determined by reducing the current cost of the remaining service potential of the asset before impairment, to conform to the reduced number of service units expected from the asset in its impaired state. As in the restoration cost approach, the current cost of replacing the remaining service potential of the asset before impairment is usually determined as the depreciated reproduction or replacement cost of the asset before impairment, whichever is lower.

## **20.6 Disclosure of impairment losses**

An entity shall disclose the criteria developed by the entity to distinguish non-cash-generating assets from cash-generating assets.

All impairment losses/reversals in surplus/deficit during the period must reflect on the Statement of Financial Performance.

All impairment losses/reversals on revalued assets recognised directly in net assets during the period.

The financial statements should also disclose, in the reconciliation of the carrying amount at the beginning and end of the period for each class of property, plant and equipment recognised in the financial statements any impairment losses recognised in the statement of financial performance during the period and impairment losses reversed in the statement of financial performance during the period.

Material impairment losses need to be disclosed in the notes to the income statement as a separately item with the following information:

- the events and circumstances that led to the recognition or reversal of the impairment loss
- the amount of the impairment loss recognised or reversed
- the nature of the asset

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- whether the recoverable service amount of the asset is its fair value less costs to sell or its value in use
  - if the recoverable service amount is fair value less costs to sell, the basis used to determine fair value less costs to sell
  - if the recoverable service amount is value in use, the discount rate(s) used in the current estimate and previous estimate (if any) of value in use.

An entity shall disclose in the notes information about the key assumptions used to determine the recoverable service amount of assets during the period that have a significant risk of causing a material adjustment to the carrying amounts of assets.

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## Section 21: Investment Property

### 21.1 Definition of Investment Property

Investment Property is defined as:

Property (land or a building — or part of a building — or both) held (by the owner or by the lessee under a finance lease) to earn rentals or for capital appreciation or both, rather than for:

- Use in the production or supply of goods or services or for administrative purposes; or
- Sale in the ordinary course of operations.
- Investment Property generates cash flows largely independently of the other assets of the municipality.

Investment property is held to earn rentals or for capital appreciation or both.

The following are examples of investment property:

- Land held for long-term capital appreciation rather than for short-term sale in the ordinary course of operations;
- Land held for a currently undetermined future use. (If the municipality has not determined that it will use the land for short-term sale in the ordinary course of operations, the land is considered to be held for capital appreciation);
- A building owned by the municipality (or held by the municipality under a finance lease) and leased out under one or more operating leases on a commercial basis; and
- A building that is vacant but is held to be leased out under one or more operating leases on a commercial basis to external parties.

The following are examples of items that are not investment property:

- Property held for sale in the ordinary course of operations or in the process of construction or development for such sale;
- Property being constructed or developed on behalf of third parties;
- Own-occupied property, including (among other things) property held for future use as own-occupied property, property held for future development and subsequent use as own-occupied property, property occupied by employees such as housing (whether or not the employees pay rent at market rates) and own-occupied property awaiting disposal;
- Property that is being constructed or developed for future use as investment property. GRAP 17 applies to such property until construction or development is complete, at which time the property becomes investment property. However, existing investment property that is being redeveloped for continued future use as investment property remains investment property;
- Property that is leased to another entity under a finance lease;
- Property held to provide a social service, and which also generates cash inflows, for example, a housing Department may hold a large housing stock used to provide housing to low income families at below market rental. In this situation, the property is held to provide housing services rather than for rentals or capital appreciation and rental revenue generated is incidental to the purposes for which the property is held. Such property is not considered an “investment property” and would be accounted for in accordance with GRAP 17; and



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- Property held for strategic purposes which would be accounted for in accordance with GRAP 17.
  - Where a property is utilised partly in the ordinary course of operations and partly to generate rentals or for capital appreciation it will only be classified as investment property if a significant portion is utilised to generate investment income.

## **21.2 Initial measurement of Investment Property**

- 21.2.1 Investment property is measured initially at its cost (including transaction costs). Where an investment property is acquired at no cost (for example donated assets), or for a nominal cost, its cost is its fair value as at the date of acquisition.
- 21.2.1 The cost of a purchased investment property comprises its purchase price and any directly attributable expenditure, such as, professional fees for legal services, property transfer taxes and other transaction costs.
- 21.2.2 The cost of a self-constructed investment property is its cost at the date when the construction or development is complete. Until that date, the municipality applies the GRAP standard on accounting for PPE (GRAP 17). At the completion date, the property becomes investment property and the Standard on investment property applies (GRAP 16).
- 21.2.3 Investment property is only recognised as an asset when it is probable that the future economic benefits or service potential that are associated with the investment property will flow to the municipality and the cost or fair value of the investment property can be measured reliably.

## **21.3 Measurement of Investment Property subsequent to initial measurement**

- 21.3.1 Subsequent expenditure relating to an investment property that has already been recognised should be added to the carrying amount of the investment property when it is probable that future economic benefits or service potential over the total life of the investment property, in excess of the most recently assessed standard of performance of the existing investment property, will flow to the municipality. All other subsequent expenditure should be recognized as an expense in the period in which it is incurred.

For example: If a municipality purchases a building as an investment property and will incur renovation costs, the renovation cost may be capitalised if it improves the condition of the asset over its most recently assessed standard of performance. Assume that before the renovation the building can earn R5, 000 per month rental income, but after the renovation it will earn R7, 000 per month rental income. In this case the renovation cost will be added to the carrying amount of the investment property.

- 21.3.2 After initial recognition of the investment property the current accounting standard allows the Mangaung Metropolitan Municipality to apply either the cost model or the Fair value model as an acceptable basis of measurement. The Mangaung Metropolitan municipality currently adopts the fair value model as its accounting policy for investment property.
- 21.3.3 The fair value of investment property is usually its market value. Fair value is measured as the most probable price reasonably obtainable in the market at the reporting date in keeping with the fair value definition. It is the best price reasonably obtainable by the seller and the most advantageous price reasonably obtainable by the buyer. After initial recognition, a municipality that chooses the fair value model should measure all of its investment property at its fair value at each Statement of Financial

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Position date. A gain or loss arising from a change in the fair value of investment property should be included in net surplus/deficit for the period in which it arises. No depreciation will be calculated on this property.

**For Example:**

The municipality purchases four houses at a cost of R200, 000 each for purposes of leasing them out to senior managers of the municipality at market related rates. The legal fees and transport duties relating to the transaction amount to R16, 000. At the end of the financial year the fair value of the houses is determined to be R 900,000. This means that the municipality will recognise a fair value gain in the Statement of Financial Performance for the year of R 84 000. (R900,000 – R 816,000).

- 21.3.4 If, after initial recognition, the municipality chooses the cost model it should measure all of its investment property using the guidelines for normal assets that is, at cost less any accumulated depreciation and accumulated impairment losses.

## **21.4 Transfers and disposals of investment properties**

### **Transfers**

Transfers to, or from, investment property should be made when, and only when, there is a change in use, evidenced by:

- Commencement of own-occupation, for a transfer from investment property to own-occupied property;
- Commencement of development with a view to sale, for a transfer from investment property to inventories;
- End of own occupation, for a transfer from other classified property to investment property;
- Commencement of an operating lease (on a commercial basis) to another party, for a transfer from inventories to investment property; or
- End of construction or development, for a transfer from property in the course of construction or development to investment property.

For a transfer from investment property carried at fair value to own-occupied property or inventories, the property's cost for subsequent accounting under the relevant GRAP on PPE (GRAP 17) or inventories should be its fair value at the date of change in use.

If an own-occupied property becomes an investment property that will be carried at fair value, a municipality should apply GRAP 17 up to the date of change in use. The municipality should treat any difference at that date between the carrying amount of the property and its fair value in the same way as a revaluation under GRAP 17 by crediting a reserve.

For a transfer from inventory to investment property that will be carried at fair value, any difference between the fair value of the property at that date and its previous carrying amount should be recognized in net surplus/deficit for the period.

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When the municipality completes the construction or development of a self-constructed investment property that will be carried at fair value, any difference between the fair value of the property at that date and its previous carrying amount should be recognized in net surplus/deficit for the period.

### **Disposals**

On disposal or permanent withdrawal from use of investment property:

- An investment property should be removed from the Statement of Financial Position;
- Gains or losses arising from the retirement or disposal of investment property should be determined as the difference between the net disposal proceeds and the carrying amount of the asset. For the purposes of display in the financial statements, the gain or loss should be included in the Statement of Financial Performance as an item of revenue or expense.

### **21.5 Budget implications relating to Investment Property.**

The following amounts will have to be budgeted for in the operating budget relating to investment properties:

- Gains on the disposal of investment properties that are intended to be sold during the next financial year.
- Fair value gains that are expected to be obtained on investment properties that will be held during the next financial year.
- Depreciation on investment properties that are intended to be transferred to own-occupied properties during the next financial year.
- The effect of reduced depreciation on own-occupied properties that are intended to be transferred to investment properties during the next financial year.
- Revenue through operating lease income; and
- Fair value gains where the intention to sell a building (inventory) is changed and the inventory is held as an investment property on which rental income and capital appreciation will be earned by the municipality in the next financial year.

### **21.6 Disclosure**

The disclosure requirements relating to information on investment property is to be done in accordance with the requirements as per the relevant GRAP statement.

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## **Section 22: Inventory**

Any land or buildings owned or acquired by the Municipality with the intention of selling such property in the ordinary course of business, or any land or buildings owned or acquired by the Municipality with the intention of developing such property for the purpose of selling it in the ordinary course of business, shall be accounted for as inventory, and not included in either property, plant and equipment or investment property in the Municipality's statement of position.

Such inventories shall, however, be recorded in the assets register in the same manner as other assets, but a separate section of the assets register shall be maintained for this purpose.

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## Section 23: Replacement Strategy

The Municipal Manager, in consultation with the Chief Financial Officer and other Heads of department shall formulate strategies and standards for the replacement of all operational property, plant and equipment. Such strategies and standards shall be incorporated in a formal policy, which shall be submitted to the Council for approval. This policy shall cover the replacement of infrastructure and operational movable vehicles and equipment.

This strategy should take into consideration:

- The nature of the asset
- The usage of the asset
- Priorities
- Available funding
- Operational and maintenance costs
- Operational skills
- Future expected developments
- Technology
- Outsourcing
- Private sector partnerships

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## Section 24: Asset Risk Management

### 24.1 Insurance

Departments are responsible for managing the risks associated with their activities.

The ultimate decision taken by a municipality relating to appropriate risk management will depend on the types of risks it is exposed to, the amount of excess it is willing to carry, budgetary constraints and all relevant factors peculiar to the municipality.

Comprehensive property, plant and equipment identification and valuation may prevent the municipality from being over or under insured. Specific supportable insurable values as defined in the insurance policy of the municipality should be reviewed regularly. In some instances, an in-house estimate of cost or insurable value may not be sufficient to substantiate the amount of a loss and, an appraisal by an independent third party may be required.

### 24.2 Other risk reducing methods

Department regulations or "operating policies" can also reduce risks. Department managers should investigate their operations and set operating policies as to how personnel should operate and use property, plant and equipment to minimize risk. Examples are as follows:

- Only authorised personnel should be allowed in areas where expensive equipment is kept;
- Only authorised personnel should be allowed to operate plant or vehicles;
- The keys for office vehicles should be controlled in a central office during the day, and employees should sign when they take the keys;
- Ensure that drivers or operators have the necessary qualifications and licenses;
- It should be part of service conditions that employees incur personal liability if they drive while under the influence of alcohol, drugs, medication, and so forth; or if they leave the vehicle unattended and unlocked;
- Physical access to buildings, or areas within buildings, should be restricted, especially after hours.

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## Section 25: Maintenance of Assets

### 25.1 Maintenance plans

Regular maintenance can prevent or minimize unplanned and expensive breakdowns. Maintenance plans must therefore be drawn up to ensure minimum maintenance standards and execution to achieve the optimum use of assets as planned.

Every Head of department shall ensure that a maintenance plan in respect of infrastructural asset is prepared and submitted to the Council of the municipality for approval.

If so, directed by the Municipal Manager, the maintenance plan shall be submitted to Council prior to any approval being granted for the acquisition or construction of new infrastructural assets.

The Head of department controlling or using the infrastructure asset in question, shall budget for the executing of the approved plan and will annually report to Council, not later than 31 March, on the extent to which the relevant maintenance plan has been complied with, and on the likely effect which any non-compliance and / or budgetary constraints may have on the useful operating life of the asset concerned.

### 25.2 Deferred Maintenance

If there is material variation between the actual maintenance expenses incurred and the expenses reasonably envisaged in the approved maintenance plan for any infrastructural asset (see 18 above), the Chief Financial Officer shall disclose the extent of and possible implications of such deferred maintenance in an appropriate note to the financial statements. Such note shall also indicate any plans which the Council has approved in order to redress such deferral of the maintenance requirements concerned.

If no such plans have been formulated or are likely to be implemented, the Head of department controlling or using such asset shall re-determine the useful operating life of the fixed asset in question, if necessary in consultation with the Asset Management Division, and the latter shall recalculate the annual depreciation expenses accordingly.

### 25.3 General maintenance

Every Head of department shall be directly responsible for ensuring that all assets in his/her care are properly maintained and in a manner which will ensure that such assets attain their useful operating lives.

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## Section 26: General Requirements

### 26.1 Tagging

Tagging means to place a control number on a piece of equipment or property.

All movable assets must be tagged if possible.

The primary purpose of tagging is to maintain a positive identification of assets.

Tagging is important to:

- Provide an accurate method of identifying individual assets
- Aid in the annual taking of physical inventory
- Control the location of all physical assets
- Aid in maintenance of fixed assets

Fixed property and plant are not tagged such as:

- Buildings (record legal description in asset record)
- Land (record legal description in asset record)
- Infrastructural assets.

Consistently place asset tags in the same location on each similar type asset. If possible, the tags shall be accessible for viewing. Place the tag where the number can be seen easily and identified without disturbing the operation of the item, which will aid in taking inventory.

### 26.2 Physical inventory of all movable assets

The Asset Management Division will conduct a physical inventory of movable assets annually. They will require the cooperation of Department personnel in accomplishing the physical inventory task and will attempt to minimize the time demanded of them.

The designated officials in the different Departments within the Municipality must execute the functions listed below.

- Ensure that the bar code number and location number are reflected on the asset movement form by the relevant official on the receipt of the asset. Where applicable, the serial number or registration number should be included.
- Complete the asset movement form when transfers occur and forward the completed original form to Asset Management Division.
- Ensure that a completed asset disposal form is submitted when an asset item is disposed of after the necessary approval has been obtained.
- Asset Management Division must be notified by the relevant Department within 14 days of any of the following possible movements:
  - Donations
  - Additions / Improvements
  - Department manufactured items
  - Loss or damage



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- Transfers
  - Terminations
  - Land Sales

### **26.3 Acquisition**

In making the decision to acquire an asset the following fundamental principles should be carefully considered:

- The purpose for which the fixed asset is required is in keeping with the objectives of the municipality and will provide significant, direct and tangible benefit to it.
- The fixed asset has been budgeted for.
- The purchase is absolutely necessary as there is no alternative municipality asset that could be upgraded or adapted.
- The fixed asset is appropriate to the task or requirement and is cost effective over the life of the asset.
- The fixed asset is compatible with existing equipment and will not result in unwarranted additional expenditure on other assets or resources.
- Space and other necessary facilities to accommodate the asset are in place and sufficient.
- The most suitable and appropriate type, brand, and model etc. has been selected.

### **26.4 Asset management responsibilities**

- Utilisation - All assets should be used for the purposes they were acquired.
- Asset performance should be regularly reviewed to identify under-utilised and under-performing assets. The reasons for this should be critically examined and appropriate action taken.
- Disciplinary action must be taken against individuals if there is an indication of misuse of the municipality's assets.

### **26.5 Additions / Improvements**

Depending upon the type of addition or improvement to a specific asset the responsible official in the Department must notify the Asset Management Division of the change in status. The asset master record will be amended on receipt of the required asset acquisition form from the responsible Department.

When capital expenditure is incurred for any enhancement/improvement of an asset, the Department shall complete the necessary asset acquisition form and forward it to the Asset Management Division.

When any changes to vacant land or land and buildings are affected such as subdivision, transfer to another Department, extent or holders title, the current custodian or Department must complete the relevant asset movement form and forward it to the Asset Management Division.

### **26.6 Termination of employee's service**

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At the termination of an employee's service, the applicable Department representative must complete the asset resignation form and forward the original to the Asset Management Division. This form is a statement that the inventory and assets entrusted to the employee to execute his/her daily duties are in good order and handed in where necessary. A copy of this form is forwarded to the HR Business Section concerned or its relevant Department for further investigation in the case of missing assets.

#### **26.7 Transfer of Assets**

When a Department transfers an asset or inventory item within the Department, the asset movement form must be completed and forwarded to the Asset Management Division. The copy of this form must be forwarded to the party receiving the asset or inventory item.

When a Department transfers an asset or inventory item to another Department, the transferring Department must approve the transfer. After approval has been granted the asset movement form must be completed and forwarded to the Asset Management Division.

#### **26.8 Disposal of assets.**

All Departments must submit the properly completed asset disposal forms together with copies of all relevant approvals for the disposal of assets to the Asset Management Division.

<b>Annexure A: Asset Hierarchy (SAM)</b>		
<b>Financial class (SYSTEM)</b>	<b>Facility class (SUB-SYSTEM)</b>	<b>FACILITY TYPE</b>
<b>Community Assets</b>	Community and Admin	Community Hall/Centre

<b>Financial class (SYSTEM)</b>	<b>Facility class (SUB-SYSTEM)</b>	<b>FACILITY TYPE</b>
Community Assets	Community and Admin	Retail
Community Assets	Community and Admin	Sport
Community Assets	Heritage Assets	Museum/ Heritage
Community Assets	Park & Cemeteries	Cemetery
Community Assets	Park & Cemeteries	Nature Reserve
Community Assets	Park & Cemeteries	Park / Garden /Zoo
Community Assets	Sport Facilities	Sport
Community Assets	Sport Facilities	Stadium
Electricity	Lighting	Street Lighting
Environmental	Air Quality	Environment Monitoring
Land & Buildings	Land Parcels	Admin Offices
Land & Buildings	Land Parcels	Community Hall/Centre
Land & Buildings	Land Parcels	Fire Station
Land & Buildings	Land Parcels	Land
Land & Buildings	Land Parcels	Library
Land & Buildings	Land Parcels	Residential Accommodation
Land & Buildings	Land Parcels	Retail
Land & Buildings	Land Parcels	Sport
Land & Buildings	Land Parcels	Stores/Warehouse/Workshop
Land & Buildings	Land Parcels	Taxi Rank/ Bus terminus
Land & Buildings	Land Parcels	Theatre
Sanitation	Waste Water Reticulation	Wastewater - Bulk Sewers
Sanitation	Waste Water Reticulation	Wastewater Reticulation
Sanitation	Waste Water Treatment	Wastewater Pump Station
Sanitation	Waste Water Treatment	Wastewater Treatment Works
Security	Security Monitoring	Security
Solid Waste	Solid Waste Disposal	Quarry/ Borrow Pit
Solid Waste	Solid Waste Disposal	Solid Waste
Stormwater Systems	Road Stormwater	Stormwater
Transport	Rail Transport	Rail Network
Transport	Rail Transport	Road Network
Transport	Road Transport	Non Motorised Transport
Transport	Road Transport	Road Furniture - not linked to road
Transport	Road Transport	Road Network
Transport	Road Transport	Stormwater
Transport	Road Transport	Traffic Control
Water	Water Bulk	Water - Bulk Pipeline
Water	Water Reticulation	Wastewater Reticulation
Water	Water Reticulation	Water Reticulation
Water	Water Storage	Water Storage
Water	Water Supply & Treatment	Water Treatment Works

## Annexure B.1: Historic Rates

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Bridges		Concrete Bridge	Length (m)	Width (m)		Area (m2)	50	R 10 000.00	0	30-06-2010
Civil Structure	Bridges		Low Water Crossing	Length (m)	Width (m)		Area (m2)	100	R 500.00	0	30-06-2010
Civil Structure	Bridges		Pedestrian	Length (m)	Width (m)		Area (m2)	100	R 3 500.00	0	30-06-2010
Civil Structure	Bridges		Pedestrian (Wood)	Length (m)	Width (m)		Area (m2)	40	R 2 000.00	0	30-06-2010
Civil Structure	Bridges		Rail	Length (m)	Width (m)		Area (m2)	100	R 5 500.00	0	30-06-2010
Civil Structure	Bridges		Steel Bridge	Length (m)	Width (m)		Area (m2)	100	R 5 000.00	0	30-06-2010
Civil Structure	Bridges		Vehicular	Length (m)	Width (m)		Area (m2)	100	R 5 500.00	0	30-06-2010
Civil Structure	Bridges		Wooden Bridge	Length (m)	Width (m)		Area (m2)	40	R 5 000.00	0	30-06-2010
Civil Structure	Catch pit		Brick-Mortar	No:			No:	30	R 1 300.00	0	30-06-2010
Civil Structure	Catch pit		Concrete	No:			No:	30	R 5 000.00	0	30-06-2010
Civil Structure	Chamber		General Brick-Mortar Ground	Holding volume (m3)			Holding volume (m3)	30	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		General Brick-Mortar Underground	Holding volume (m3)			Holding volume (m3)	30	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		General Concrete Ground	Holding volume (m3)			Holding volume (m3)	50	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		General Concrete Underground	Holding volume (m3)			Holding volume (m3)	50	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		Macerator Chamber Brick-Mortar	Holding volume (m3)			Holding volume (m3)	30	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		Macerator Chamber Concrete	Holding volume (m3)			Holding volume (m3)	50	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		Meter Chamber Brick-Mortar	Holding volume (m3)			Holding volume (m3)	30	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		Meter Chamber Concrete	Holding volume (m3)			Holding volume (m3)	50	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		Mixing Chamber Brick-Mortar	Holding volume (m3)			Holding volume (m3)	30	R 5 000.00	0	30-06-2010
Civil Structure	Chamber		Mixing Chamber Concrete	Holding volume (m3)			Holding volume (m3)	50	R 5 000.00	0	30-06-2010
Civil Structure	Chamber		Valve Chamber Brick-Mortar Ground	Holding volume (m3)			Holding volume (m3)	30	R 7 000.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Chamber		Valve Chamber Brick-Mortar Underground	Holding volume (m3)			Holding volume (m3)	30	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		Valve Chamber Concrete Ground	Holding volume (m3)			Holding volume (m3)	50	R 7 000.00	0	30-06-2010
Civil Structure	Chamber		Valve Chamber Concrete Underground	Holding volume (m3)			Holding volume (m3)	50	R 7 000.00	0	30-06-2010
Civil Structure	Channel Covered		Brick-Block Pitching Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	50	R 1 600.00	0	30-06-2010
Civil Structure	Channel Covered		Concrete Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	50	R 1 600.00	0	30-06-2010
Civil Structure	Channel Covered		Stone Lined Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	50	R 1 600.00	0	30-06-2010
Civil Structure	Channel Open		Brick-Block Pitching Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	30	R 210.00	0	30-06-2010
Civil Structure	Channel Open		Concrete Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	50	R 2 654.00	0	30-06-2010
Civil Structure	Channel Open		Concrete Flume	Width (m)	Height (m)	Length (m)	Holding volume (m3)	50	R 3 000.00	0	30-06-2010
Civil Structure	Channel Open		Concrete Flume	Width (m)	Height (m)	Length (m)	Holding volume (m3)	50	R 7 000.00	0	30-06-2010
Civil Structure	Channel Open		Earth Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	5	R 190.00	0	30-06-2010
Civil Structure	Channel Open		Gabion Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	50	R 830.00	0	30-06-2010
Civil Structure	Channel Open		Rip - Rap Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	50	R 250.00	0	30-06-2010
Civil Structure	Channel Open		Stone Lined Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	30	R 500.00	0	30-06-2010
Civil Structure	Channel Open		Stone Pitching Channel	Width (m)	Height (m)	Length (m)	Holding volume (m3)	30	R 1 520.00	0	30-06-2010
Civil Structure	Embanked Ponds		Attenuation Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50	R 238.65	0	30-06-2010
Civil Structure	Embanked Ponds		Evaporation Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Embanked Ponds		Filtration Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Embanked Ponds		Final Effluent Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Embanked Ponds		Maturation Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Embanked Ponds		Oxidation Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50	R 238.65	0	30-06-2010
Civil Structure	Embanked Ponds		Saturation Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Embanked Ponds		Sludge Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Embanked Ponds		Stabilisation Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50	R 238.65	0	30-06-2010
Civil Structure	Embanked Ponds		Storage Pond	Length (m)	With (m)	Height (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Embankment		Concrete Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	100		0	30-06-2010
Civil Structure	Embankment		Earth Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50	R 150.00	0	30-06-2010
Civil Structure	Embankment		Gabion Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50	R 1 500.00	0	30-06-2010
Civil Structure	Embankment		Retaining Blocks	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Embankment		Rip - Rap Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Embankment		Weir Wall Earth Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Erosion Protection		Brick-Mortar Wall	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50	R 800.00	0	30-06-2010
Civil Structure	Erosion Protection		Concrete Slab	Length (m)	Height (m)	Thickness (m)	Volume (m3)	50	R 1 120.00	0	30-06-2010
Civil Structure	Erosion Protection		Concrete Structure	Length (m)	Height (m)	Thickness (m)	Volume (m3)	50		0	30-06-2010
Civil Structure	Erosion Protection		Concrete Wall	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50	R 5 000.00	0	30-06-2010
Civil Structure	Erosion Protection		Earth Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Erosion Protection		Gabions	Volume (m3)			Volume (m3)	20	R 1 500.00	0	30-06-2010
Civil Structure	Erosion Protection		Retaining Blocks	Length (m)	Height (m)		Area (m2)	50		0	30-06-2010
Civil Structure	Erosion Protection		Rip - Rap	Volume (m3)			Volume (m3)	20		0	30-06-2010
Civil Structure	Erosion Protection		Stone Lining	Area (m2)			Area (m2)	50		0	30-06-2010
Civil Structure	Erosion Protection		Stone Wall	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Field Surfacing		Asphalt	Area (m2)			Area (m2)	50	R 60.00	0	30-06-2010
Civil Structure	Field Surfacing		Astro-Turf	Area (m2)			Area (m2)	50	R 4 800 000.00	0	30-06-2010
Civil Structure	Field Surfacing		Concrete	Area (m2)			Area (m2)	50	R 50.00	0	30-06-2010
Civil Structure	Field Surfacing		Cricket Pitch Surface	Area (m2)			Area (m2)	50	R 60.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Field Surfacing		Deso-Turf	Area (m2)			Area (m2)	50	R 4 800 000.00	0	30-06-2010
Civil Structure	Field Surfacing		Grass	Area (m2)			Area (m2)	50	R 40.00	0	30-06-2010
Civil Structure	Field Surfacing		Paving	Area (m2)			Area (m2)	50		0	30-06-2010
Civil Structure	Field Surfacing		Tarmac	Area (m2)			Area (m2)	50		0	30-06-2010
Civil Structure	Guardrail		Steel Railing	Length (m)			Length (m)	20	R 553.00	0	30-06-2010
Civil Structure	Island		Asphalt	Area (m2)			Area (m2)	50		0	30-06-2010
Civil Structure	Island		Brick Paving	Area (m2)			Area (m2)	50	R 150.00	0	30-06-2010
Civil Structure	Island		Concrete Surface	Area (m2)			Area (m2)	50	R 617.00	0	30-06-2010
Civil Structure	Island		Garden	Area (m2)			Area (m2)	30	R 40.00	0	30-06-2010
Civil Structure	Island		Grass Surface	Area (m2)			Area (m2)	30	R 40.00	0	30-06-2010
Civil Structure	Island		Stone Pitching	Area (m2)			Area (m2)	30	R 1 520.00	0	30-06-2010
Civil Structure	Island		Unpaved	Area (m2)			Area (m2)	30	R 70.00	0	30-06-2010
Civil Structure	Kerbing		Barrier Kerb	Length (m)			Length (m)	30	R 200.00	0	30-06-2010
Civil Structure	Kerbing		Channel Kerb	Length (m)			Length (m)	30	R 200.00	0	30-06-2010
Civil Structure	Kerbing		Combination Kerb	Length (m)			Length (m)	30	R 200.00	0	30-06-2010
Civil Structure	Kerbing		Kerb	Length (m)			Length (m)	30	R 200.00	0	30-06-2010
Civil Structure	Kerbing		Mountable Kerb	Length (m)			Length (m)	30	R 200.00	0	30-06-2010
Civil Structure	Manhole		Brick-Mortar	No:			No:	30	R 1 500.00	0	30-06-2010
Civil Structure	Manhole		Concrete	No:			No:	50	R 1 500.00	0	30-06-2010
Civil Structure	Overflow		Brick	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Overflow		Concrete	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Overflow		Stone	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure	Overflow Structure		Concrete	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50	R 5 000.00	0	30-06-2010
Civil Structure	Overflow Structure		Gabions	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50		0	30-06-2010
Civil Structure	Parking Area		Asphalt	Area (m2)			Area (m2)	50	R 150.00	0	30-06-2010
Civil Structure	Parking Area		Concrete Surface	Area (m2)			Area (m2)	50	R 617.00	0	30-06-2010
Civil Structure	Parking Area		Paved	Area (m2)			Area (m2)	50	R 150.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Parking Area		Unpaved	Area (m2)			Area (m2)	30	R 150.00	0	30-06-2010
Civil Structure	Pipe		1000mm	Length (m)			Length (m)	50	R 5 000.00	0	30-06-2010
Civil Structure	Pipe		1100mm	Length (m)			Length (m)	50	R 1 193.00	0	30-06-2010
Civil Structure	Pipe		1200mm	Length (m)			Length (m)	50	R 1 200.00	0	30-06-2010
Civil Structure	Pipe		1500mm	Length (m)			Length (m)	50	R 5 000.00	0	30-06-2010
Civil Structure	Pipe		160mm	Length (m)			Length (m)	50	R 210.00	0	30-06-2010
Civil Structure	Pipe		300mm	Length (m)			Length (m)	50	R 290.00	0	30-06-2010
Civil Structure	Pipe		375mm	Length (m)			Length (m)	50	R 705.00	0	30-06-2010
Civil Structure	Pipe		400mm	Length (m)			Length (m)	50	R 600.00	0	30-06-2010
Civil Structure	Pipe		450mm	Length (m)			Length (m)	50	R 550.00	0	30-06-2010
Civil Structure	Pipe		475mm	Length (m)			Length (m)	50	R 750.00	0	30-06-2010
Civil Structure	Pipe		550mm	Length (m)			Length (m)	50		0	30-06-2010
Civil Structure	Pipe		600mm	Length (m)			Length (m)	50	R 600.00	0	30-06-2010
Civil Structure	Pipe		700mm	Length (m)			Length (m)	50		0	30-06-2010
Civil Structure	Pipe		750mm	Length (m)			Length (m)	50	R 1 120.00	0	30-06-2010
Civil Structure	Pipe		900mm	Length (m)			Length (m)	50	R 1 193.00	0	30-06-2010
Civil Structure	Ponds		Attenuation Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50		0	30-06-2010
Civil Structure	Ponds		Evaporation Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50		0	30-06-2010
Civil Structure	Ponds		Filtration Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50		0	30-06-2010
Civil Structure	Ponds		Final Effluent Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50	R 160.00	0	30-06-2010
Civil Structure	Ponds		Maturation Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50	R 238.65	0	30-06-2010
Civil Structure	Ponds		Oxidation Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50	R 238.65	0	30-06-2010
Civil Structure	Ponds		Saturation Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50		0	30-06-2010
Civil Structure	Ponds		Sludge Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50	R 238.65	0	30-06-2010
Civil Structure	Ponds		Stabilisation Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50	R 238.65	0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Ponds		Storage Pond	Length (m)	Depth (m)	With (m)	Holding volume (m3)	50		0	30-06-2010
Civil Structure	Pumps		Ground Level Base Brick-Mortar	Concrete volume (m3)			Concrete volume (m3)	30	R 1 120.00	0	30-06-2010
Civil Structure	Pumps		Ground Level Base Concrete	Concrete volume (m3)			Concrete volume (m3)	50	R 1 120.00	0	30-06-2010
Civil Structure	Pumps		Ground Level G-Steel Mountings	No:			No:	50	R 1 520.00	0	30-06-2010
Civil Structure	Pumps		Ground Level Steel Mountings	No:			No:	30	R 1 120.00	0	30-06-2010
Civil Structure	Pumps		Underground Base Brick-Mortar	Concrete volume (m3)			Concrete volume (m3)	30		0	30-06-2010
Civil Structure	Pumps		Underground Base Concrete	Concrete volume (m3)			Concrete volume (m3)	50	R 2 530.00	0	30-06-2010
Civil Structure	Pumps		Underground G-Steel Mountings	No:			No:	50		0	30-06-2010
Civil Structure	Pumps		Underground Steel Mountings	No:			No:	50		0	30-06-2010
Civil Structure	RA		Asphalt Structure	Length (m)	Width (m)		Area (m2)	40	R 300.00	0	30-06-2010
Civil Structure	RA		Asphalt Surface	Length (m)	Width (m)		Area (m2)	30	R 60.00	0	30-06-2010
Civil Structure	RA		Brick Paving Structure	Length (m)	Width (m)		Area (m2)	50	R 243.00	0	30-06-2010
Civil Structure	RA		Brick Paving Surface	Length (m)	Width (m)		Area (m2)	45	R 120.00	0	30-06-2010
Civil Structure	RA		Concrete Structure	Length (m)	Width (m)		Area (m2)	45	R 300.00	0	30-06-2010
Civil Structure	RA		Concrete Surface	Length (m)	Width (m)		Area (m2)	45	R 120.00	0	30-06-2010
Civil Structure	RA		Seal Structure	Length (m)	Width (m)		Area (m2)	30	R 200.00	0	30-06-2010
Civil Structure	RA		Seal Surface	Length (m)	Width (m)		Area (m2)	15	R 20.00	0	30-06-2010
Civil Structure	Rectangular		10000mm x 1000mm	Length (m)			Length (m)	50	R 63 542.86	0	30-06-2010
Civil Structure	Rectangular		10000mm x 3000mm	Length (m)			Length (m)	50	R 102 887.79	0	30-06-2010
Civil Structure	Rectangular		10000mm x 500mm	Length (m)			Length (m)	50	R 60 391.78	0	30-06-2010
Civil Structure	Rectangular		1000mm x 1000mm	Length (m)			Length (m)	50	R 1 321.00	0	30-06-2010
Civil Structure	Rectangular		1000mm x 600mm	Length (m)			Length (m)	50	R 8 815.86	0	30-06-2010
Civil Structure	Rectangular		1000mm x 900mm	Length (m)			Length (m)	50	R 3 600.00	0	30-06-2010
Civil Structure	Rectangular		1200mm x 1000mm	Length (m)			Length (m)	50	R 1 832.00	0	30-06-2010
Civil Structure	Rectangular		1200mm x 1200mm	Length (m)			Length (m)	50	R 12 575.55	0	30-06-2010
Civil Structure	Rectangular		1200mm x 300mm	Length (m)			Length (m)	50	R 8 521.62	0	30-06-2010
Civil Structure	Rectangular		1200mm x 450mm	Length (m)			Length (m)	50	R 2 900.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Rectangular		1200mm x 600mm	Length (m)			Length (m)	50	R 3 600.00	0	30-06-2010
Civil Structure	Rectangular		1200mm x 800mm	Length (m)			Length (m)	50	R 10 740.38	0	30-06-2010
Civil Structure	Rectangular		1200mm x 900mm	Length (m)			Length (m)	50	R 3 600.00	0	30-06-2010
Civil Structure	Rectangular		1250mm x 600mm	Length (m)			Length (m)	50	R 10 194.58	0	30-06-2010
Civil Structure	Rectangular		1400mm x 1100mm	Length (m)			Length (m)	50	R 11 495.55	0	30-06-2010
Civil Structure	Rectangular		1500mm x 1000mm	Length (m)			Length (m)	50	R 12 796.51	0	30-06-2010
Civil Structure	Rectangular		1500mm x 1200mm	Length (m)			Length (m)	50	R 13 670.18	0	30-06-2010
Civil Structure	Rectangular		1500mm x 1500mm	Length (m)			Length (m)	50	R 3 529.00	0	30-06-2010
Civil Structure	Rectangular		1500mm x 300mm	Length (m)			Length (m)	50	R 10 225.64	0	30-06-2010
Civil Structure	Rectangular		1500mm x 450mm	Length (m)			Length (m)	50	R 10 937.59	0	30-06-2010
Civil Structure	Rectangular		1500mm x 500mm	Length (m)			Length (m)	50	R 11 171.79	0	30-06-2010
Civil Structure	Rectangular		1500mm x 600mm	Length (m)			Length (m)	50	R 11 644.80	0	30-06-2010
Civil Structure	Rectangular		1500mm x 900mm	Length (m)			Length (m)	50	R 12 368.89	0	30-06-2010
Civil Structure	Rectangular		150mm x 800mm	Length (m)			Length (m)	50	R 12 121.39	0	30-06-2010
Civil Structure	Rectangular		1650mm x 1650mm	Length (m)			Length (m)	50		0	30-06-2010
Civil Structure	Rectangular		1650mm x 600mm	Length (m)			Length (m)	50	R 12 333.03	0	30-06-2010
Civil Structure	Rectangular		1800mm x 1000mm	Length (m)			Length (m)	50	R 15 173.01	0	30-06-2010
Civil Structure	Rectangular		1800mm x 1200mm	Length (m)			Length (m)	50	R 16 146.27	0	30-06-2010
Civil Structure	Rectangular		1800mm x 1500mm	Length (m)			Length (m)	50	R 17 594.05	0	30-06-2010
Civil Structure	Rectangular		1800mm x 1800mm	Length (m)			Length (m)	50	R 19 035.07	0	30-06-2010
Civil Structure	Rectangular		1800mm x 600mm	Length (m)			Length (m)	50	R 13 242.01	0	30-06-2010
Civil Structure	Rectangular		1800mm x 650mm	Length (m)			Length (m)	50	R 13 480.43	0	30-06-2010
Civil Structure	Rectangular		1800mm x 900mm	Length (m)			Length (m)	50	R 14 695.58	0	30-06-2010
Civil Structure	Rectangular		1950mm x 1200mm	Length (m)			Length (m)	50	R 16 744.49	0	30-06-2010
Civil Structure	Rectangular		2000mm x 1000mm	Length (m)			Length (m)	50	R 15 988.91	0	30-06-2010
Civil Structure	Rectangular		2000mm x 1600mm	Length (m)			Length (m)	50	R 19 023.82	0	30-06-2010
Civil Structure	Rectangular		200mm x 200mm	Length (m)			Length (m)	50	R 4 156.68	0	30-06-2010
Civil Structure	Rectangular		2100mm x 1200mm	Length (m)			Length (m)	50	R 17 342.72	0	30-06-2010
Civil Structure	Rectangular		2100mm x 1500mm	Length (m)			Length (m)	50	R 18 799.27	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Rectangular		2100mm x 1800mm	Length (m)			Length (m)	50	R 20 584.71	0	30-06-2010
Civil Structure	Rectangular		2100mm x 2100mm	Length (m)			Length (m)	50	R 22 050.00	0	30-06-2010
Civil Structure	Rectangular		2100mm x 600mm	Length (m)			Length (m)	50	R 14 423.18	0	30-06-2010
Civil Structure	Rectangular		2100mm x 900mm	Length (m)			Length (m)	50	R 15 884.02	0	30-06-2010
Civil Structure	Rectangular		2200mm x 1500mm	Length (m)			Length (m)	50	R 19 594.24	0	30-06-2010
Civil Structure	Rectangular		2400mm x 1200mm	Length (m)			Length (m)	50	R 19 591.36	0	30-06-2010
Civil Structure	Rectangular		2400mm x 1500mm	Length (m)			Length (m)	50	R 21 155.72	0	30-06-2010
Civil Structure	Rectangular		2400mm x 1800mm	Length (m)			Length (m)	50	R 22 715.20	0	30-06-2010
Civil Structure	Rectangular		2400mm x 2400mm	Length (m)			Length (m)	50	R 26 486.68	0	30-06-2010
Civil Structure	Rectangular		2400mm x 600mm	Length (m)			Length (m)	50	R 16 444.00	0	30-06-2010
Civil Structure	Rectangular		2400mm x 900mm	Length (m)			Length (m)	50	R 18 022.12	0	30-06-2010
Civil Structure	Rectangular		2500mm x 1500mm	Length (m)			Length (m)	50		0	30-06-2010
Civil Structure	Rectangular		2950mm x 1900mm	Length (m)			Length (m)	50	R 28 721.31	0	30-06-2010
Civil Structure	Rectangular		3000mm x 1200mm	Length (m)			Length (m)	50	R 24 855.78	0	30-06-2010
Civil Structure	Rectangular		3000mm x 1500mm	Length (m)			Length (m)	50	R 26 799.47	0	30-06-2010
Civil Structure	Rectangular		3000mm x 1600mm	Length (m)			Length (m)	50	R 27 441.30	0	30-06-2010
Civil Structure	Rectangular		3000mm x 1800mm	Length (m)			Length (m)	50	R 28 743.34	0	30-06-2010
Civil Structure	Rectangular		3000mm x 2100mm	Length (m)			Length (m)	50	R 30 225.86	0	30-06-2010
Civil Structure	Rectangular		3000mm x 2400mm	Length (m)			Length (m)	50	R 31 763.63	0	30-06-2010
Civil Structure	Rectangular		3000mm x 2800mm	Length (m)			Length (m)	50	R 34 264.60	0	30-06-2010
Civil Structure	Rectangular		3000mm x 3000mm	Length (m)			Length (m)	50	R 35 551.92	0	30-06-2010
Civil Structure	Rectangular		3000mm x 600mm	Length (m)			Length (m)	50	R 20 957.92	0	30-06-2010
Civil Structure	Rectangular		3000mm x 900mm	Length (m)			Length (m)	50	R 22 908.60	0	30-06-2010
Civil Structure	Rectangular		300mm x 500mm	Length (m)			Length (m)	50	R 4 240.15	0	30-06-2010
Civil Structure	Rectangular		3200mm x 1200mm	Length (m)			Length (m)	50	R 26 147.90	0	30-06-2010
Civil Structure	Rectangular		3350mm x 1500mm	Length (m)			Length (m)	50	R 29 109.40	0	30-06-2010
Civil Structure	Rectangular		3500mm x 1400mm	Length (m)			Length (m)	50	R 29 524.38	0	30-06-2010
Civil Structure	Rectangular		3600mm x 1000mm	Length (m)			Length (m)	50	R 25 332.88	0	30-06-2010
Civil Structure	Rectangular		3600mm x 1200mm	Length (m)			Length (m)	50	R 26 490.84	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Rectangular		3600mm x 1500mm	Length (m)			Length (m)	50	R 30 127.98	0	30-06-2010
Civil Structure	Rectangular		3600mm x 1800mm	Length (m)			Length (m)	50	R 33 820.38	0	30-06-2010
Civil Structure	Rectangular		3600mm x 2100mm	Length (m)			Length (m)	50	R 35 768.15	0	30-06-2010
Civil Structure	Rectangular		3600mm x 2400mm	Length (m)			Length (m)	50	R 37 771.18	0	30-06-2010
Civil Structure	Rectangular		3600mm x 3000mm	Length (m)			Length (m)	50	R 42 714.95	0	30-06-2010
Civil Structure	Rectangular		3600mm x 600mm	Length (m)			Length (m)	50	R 23 048.08	0	30-06-2010
Civil Structure	Rectangular		3600mm x 900mm	Length (m)			Length (m)	50	R 24 763.11	0	30-06-2010
Civil Structure	Rectangular		3800mm x 1000mm	Length (m)			Length (m)	50	R 26 246.96	0	30-06-2010
Civil Structure	Rectangular		3800mm x 1800mm	Length (m)			Length (m)	50	R 35 396.12	0	30-06-2010
Civil Structure	Rectangular		4000mm x 1000mm	Length (m)			Length (m)	50	R 27 133.09	0	30-06-2010
Civil Structure	Rectangular		4000mm x 2000mm	Length (m)			Length (m)	50		0	30-06-2010
Civil Structure	Rectangular		450mm x 300mm	Length (m)			Length (m)	50	R 4 614.92	0	30-06-2010
Civil Structure	Rectangular		450mm x 375mm	Length (m)			Length (m)	50	R 4 857.79	0	30-06-2010
Civil Structure	Rectangular		450mm x 450mm	Length (m)			Length (m)	50	R 5 095.59	0	30-06-2010
Civil Structure	Rectangular		500mm x 1000mm	Length (m)			Length (m)	50	R 7 188.69	0	30-06-2010
Civil Structure	Rectangular		500mm x 300mm	Length (m)			Length (m)	50	R 4 882.00	0	30-06-2010
Civil Structure	Rectangular		500mm x 500mm	Length (m)			Length (m)	50	R 5 510.36	0	30-06-2010
Civil Structure	Rectangular		6000mm x 1500mm	Length (m)			Length (m)	50	R 43 783.67	0	30-06-2010
Civil Structure	Rectangular		6000mm x 2800mm	Length (m)			Length (m)	50	R 57 725.25	0	30-06-2010
Civil Structure	Rectangular		600mm x 300mm	Length (m)			Length (m)	50	R 5 442.38	0	30-06-2010
Civil Structure	Rectangular		600mm x 450mm	Length (m)			Length (m)	50	R 1 350.00	0	30-06-2010
Civil Structure	Rectangular		600mm x 500mm	Length (m)			Length (m)	50	R 6 132.15	0	30-06-2010
Civil Structure	Rectangular		600mm x 600mm	Length (m)			Length (m)	50	R 3 600.00	0	30-06-2010
Civil Structure	Rectangular		600mm x 750mm	Length (m)			Length (m)	50	R 7 012.00	0	30-06-2010
Civil Structure	Rectangular		600mm x 800mm	Length (m)			Length (m)	50	R 7 195.96	0	30-06-2010
Civil Structure	Rectangular		700mm x 350mm	Length (m)			Length (m)	50	R 6 222.27	0	30-06-2010
Civil Structure	Rectangular		700mm x 700mm	Length (m)			Length (m)	50	R 7 472.41	0	30-06-2010
Civil Structure	Rectangular		750mm x 300mm	Length (m)			Length (m)	50	R 6 251.33	0	30-06-2010
Civil Structure	Rectangular		750mm x 450mm	Length (m)			Length (m)	50	R 6 837.91	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Rectangular		750mm x 600mm	Length (m)			Length (m)	50	R 7 422.15	0	30-06-2010
Civil Structure	Rectangular		750mm x 750mm	Length (m)			Length (m)	50	R 7 993.27	0	30-06-2010
Civil Structure	Rectangular		750mm x 900mm	Length (m)			Length (m)	50	R 8 628.26	0	30-06-2010
Civil Structure	Rectangular		770mm x 400mm	Length (m)			Length (m)	50	R 6 749.29	0	30-06-2010
Civil Structure	Rectangular		8000mm x 4000mm	Length (m)			Length (m)	50	R 100 187.45	0	30-06-2010
Civil Structure	Rectangular		800mm x 400mm	Length (m)			Length (m)	50	R 7 053.87	0	30-06-2010
Civil Structure	Rectangular		800mm x 500mm	Length (m)			Length (m)	50	R 7 375.68	0	30-06-2010
Civil Structure	Rectangular		800mm x 600mm	Length (m)			Length (m)	50	R 7 703.68	0	30-06-2010
Civil Structure	Rectangular		840mm x 520mm	Length (m)			Length (m)	50	R 7 769.79	0	30-06-2010
Civil Structure	Rectangular		900mm x 300mm	Length (m)			Length (m)	50	R 6 927.07	0	30-06-2010
Civil Structure	Rectangular		900mm x 450mm	Length (m)			Length (m)	50	R 7 532.34	0	30-06-2010
Civil Structure	Rectangular		900mm x 500mm	Length (m)			Length (m)	50	R 7 775.60	0	30-06-2010
Civil Structure	Rectangular		900mm x 600mm	Length (m)			Length (m)	50	R 1 359.00	0	30-06-2010
Civil Structure	Rectangular		900mm x 700mm	Length (m)			Length (m)	50	R 8 681.83	0	30-06-2010
Civil Structure	Rectangular		900mm x 750mm	Length (m)			Length (m)	50	R 8 891.67	0	30-06-2010
Civil Structure	Rectangular		900mm x 900mm	Length (m)			Length (m)	50	R 9 500.24	0	30-06-2010
Civil Structure	Retaining Wall		Brick	Length (m)	Height (m)		Area (m2)	50	R 800.00	0	30-06-2010
Civil Structure	Retaining Wall		Concrete	Length (m)	Height (m)		Area (m2)	50	R 1 000.00	0	30-06-2010
Civil Structure	Retaining Wall		Gabions	Length (m)	Height (m)		Area (m2)	50	R 1 500.00	0	30-06-2010
Civil Structure	Retaining Wall		Retaining Blocks	Length (m)	Height (m)		Area (m2)	50	R 1 200.00	0	30-06-2010
Civil Structure	Retaining Wall		Stone Wall	Length (m)	Height (m)		Area (m2)	50	R 1 500.00	0	30-06-2010
Civil Structure	Screens		Inlet Screen	Screen area (m2)			Screen area (m2)	50	R 1 700.00	0	30-06-2010
Civil Structure	Screens		Manual Rake Screen	Screen area (m2)			Screen area (m2)	50	R 4 864.00	0	30-06-2010
Civil Structure	Screens		Outlet Screen	Screen area (m2)			Screen area (m2)	50		0	30-06-2010
Civil Structure	Sidewalk		Asphalt	Area (m2)			Area (m2)	50	R 350.00	0	30-06-2010
Civil Structure	Sidewalk		Brick Paving	Area (m2)			Area (m2)	50		0	30-06-2010
Civil Structure	Sidewalk		Concrete	Area (m2)			Area (m2)	50	R 450.00	0	30-06-2010
Civil Structure	Sidewalk		Unpaved	Area (m2)			Area (m2)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date	
Civil Structure	Sludge Drying Bed		Brick	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	40		0	30-06-2010	
Civil Structure	Sludge Drying Bed		Brick-Mortar	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	45	R	5 000.00	0	30-06-2010
Civil Structure	Sludge Drying Bed		Concrete	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50	R	5 000.00	0	30-06-2010
Civil Structure	Sludge Drying Bed		Earth Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	30	R	150.00	0	30-06-2010
Civil Structure	Speed Bump		Asphalt	Length (m)	Width (m)	Height (m)	Volume (m3)	50	R	282.00	0	30-06-2010
Civil Structure	Speed Bump		Brick Paving	Length (m)	Width (m)	Height (m)	Volume (m3)	50	R	120.00	0	30-06-2010
Civil Structure	Speed Bump		Concrete Surface	Length (m)	Width (m)	Height (m)	Volume (m3)	50	R	617.00	0	30-06-2010
Civil Structure	Speed Bump		Stone Pitching	Length (m)	Width (m)	Height (m)	Volume (m3)	30	R	1 520.00	0	30-06-2010
Civil Structure	Speed Bump		Unpaved	Length (m)	Width (m)	Height (m)	Volume (m3)	30			0	30-06-2010
Civil Structure	Structure		Aerator Outlet Structure	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50			0	30-06-2010
Civil Structure	Structure		Concrete Slab	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50	R	1 120.00	0	30-06-2010
Civil Structure	Structure		Disinfection Structure	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50	R	5 000.00	0	30-06-2010
Civil Structure	Structure		Disinfection Structure	Length (m)	Width (m)	Height (m)	Holding volume (m3)	50	R	5 000.00	0	30-06-2010
Civil Structure	Structure		Flow Distribution Box	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50	R	5 000.00	0	30-06-2010
Civil Structure	Structure		Flow Distribution Box	Length (m)	Width (m)	Height (m)	Holding volume (m3)	50	R	5 000.00	0	30-06-2010
Civil Structure	Structure		Flow Splitter Box	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50			0	30-06-2010
Civil Structure	Structure		Flow Splitter Box	Length (m)	Width (m)	Height (m)	Holding volume (m3)	50			0	30-06-2010
Civil Structure	Structure		General Concrete Structure	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50	R	5 000.00	0	30-06-2010
Civil Structure	Structure		Inlet Structure	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50	R	5 000.00	0	30-06-2010
Civil Structure	Structure		Mixing Structure	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50	R	5 000.00	0	30-06-2010
Civil Structure	Structure		Mixing Structure	Length (m)	Width (m)	Height (m)	Holding volume (m3)	50	R	5 000.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Structure		Outlet Structure	Length (m)	Width (m)	Height (m)	Concrete volume (m3)	50	R 5 000.00	0	30-06-2010
Civil Structure	Structure		Well Structure	Depth (m)			Depth (m)	100	R 380.00	0	30-06-2010
Civil Structure	Sumps		Elutriation Retaining Sump	Width (m)	Depth (m)	Length (m)	Holding volume (m3)	50	R 10 000.00	0	30-06-2010
Civil Structure	Sumps		Open Drain	Width (m)	Depth (m)	Length (m)	Holding volume (m3)	50	R 10 000.00	0	30-06-2010
Civil Structure	Sumps		Overflow Drain	Width (m)	Depth (m)	Length (m)	Holding volume (m3)	50	R 10 000.00	0	30-06-2010
Civil Structure	Sumps		Pump Sump	Width (m)	Depth (m)	Length (m)	Holding volume (m3)	50	R 10 000.00	0	30-06-2010
Civil Structure	Sumps		Sludge Sump	Width (m)	Depth (m)	Length (m)	Holding volume (m3)	50	R 10 000.00	0	30-06-2010
Civil Structure	Sumps		Submersible Pump Sump	Width (m)	Depth (m)	Length (m)	Holding volume (m3)	50	R 10 000.00	0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Activated Sludge Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Aerator Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Anaerobic Digester Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Animal Drinking Crip	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Anoxic Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Balancing Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Biological Filter Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Biological Reactor Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Break Pressure Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Chlorination Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Chlorine Contact Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Circular Aerator Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Brick-Mortar		Clarifier Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Clarigester Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Disinfection Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Ferric Chloride Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Flocculation Column	Holding volume (KI)			Holding volume (KI)	50	R 7 000.00	0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Flocculation Silo	Holding volume (KI)			Holding volume (KI)	50	R 10 000.00	0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Grit Settling Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Humus Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Lime Mixing Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Pressure Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Recovery Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Sedimentation Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Septic Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Settling Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Sludge Recycle Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Small Storage Farm Dam	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Small Water Holding Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Sodium Hypochlorite	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Sodium Hypochlorite Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Storage Tank Ground Level	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Brick-Mortar		Storage Tank Ground Level Covered	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Storage Tank Underground	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Storage Tank Underground Covered	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Brick-Mortar		Thickener Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Concrete		Activated Sludge Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Aerator Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Anaerobic Digester Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Animal Drinking Crip	Holding volume (KI)			Holding volume (KI)	50	R 2 286.00	0	30-06-2010
Civil Structure	Tanks Concrete		Anoxic Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Balancing Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Biological Filter Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Biological Reactor Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Break Pressure Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Chlorination Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Chlorine Contact Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Circular Aerator Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Clarifier Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Clarigester Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Disinfection Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Ferric Chloride Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Concrete		Flocculation Column	Holding volume (KI)			Holding volume (KI)	50	R 7 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Flocculation Silo	Holding volume (KI)			Holding volume (KI)	50	R 10 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Grit Settling Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Humus Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Lime Mixing Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Pressure Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Recovery Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Sedimentation Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Septic Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Settling Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Sludge Recycle Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Small Storage Farm Dam	Holding volume (KI)			Holding volume (KI)	50	R 2 286.00	0	30-06-2010
Civil Structure	Tanks Concrete		Small Water Holding Tank	Holding volume (KI)			Holding volume (KI)	50	R 2 286.00	0	30-06-2010
Civil Structure	Tanks Concrete		Sodium Hypochlorite	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Sodium Hypochlorite Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Storage Tank Ground Level	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Storage Tank Ground Level Covered	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Storage Tank Underground	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Storage Tank Underground Covered	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010
Civil Structure	Tanks Concrete		Thickener Tank	Holding Volume (MI)			Holding Volume (MI)	50	R 2 286 000.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Fibreglass		Activated Sludge Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Aerator Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Anaerobic Digester Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Anoxic Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Balancing Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Biological Filter Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Biological Reactor Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Break Pressure Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Chlorination Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Chlorine Contact Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Circular Aerator Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Clarifier Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Clarigester Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Disinfection Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Ferric Chloride Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Flocculation Column	Holding volume (KI)			Holding volume (KI)	50	R 7 000.00	0	30-06-2010
Civil Structure	Tanks Fibreglass		Flocculation Silo	Holding volume (KI)			Holding volume (KI)	50	R 10 000.00	0	30-06-2010
Civil Structure	Tanks Fibreglass		Grit Settling Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Humus Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Lime Mixing Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Fibreglass		Pressure Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Sedimentation Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Septic Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Settling Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Sludge Recycle Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Small Water Holding Tank	Holding volume (KI)			Holding volume (KI)	50	R 7 000.00	0	30-06-2010
Civil Structure	Tanks Fibreglass		Sodium Hypochlorite	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Sodium Hypochlorite Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Storage Tank Ground Level	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Storage Tank Ground Level Covered	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Storage Tank Underground	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Storage Tank Underground Covered	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Fibreglass		Thickener Tank	Holding Volume (MI)			Holding Volume (MI)	50		0	30-06-2010
Civil Structure	Tanks Plastic		Activated Sludge Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Aerator Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Anaerobic Digester Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Animal Drinking Crip	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Plastic		Anoxic Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Balancing Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Biological Filter Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Plastic		Biological Reactor Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Break Pressure Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Chlorination Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Chlorine Contact Tank	Holding Volume (MI)			Holding Volume (MI)	20	R 2 500 000.00	0	30-06-2010
Civil Structure	Tanks Plastic		Circular Aerator Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Clarifier Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Clarigester Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Disinfection Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Ferric Chloride Tank	Holding volume (KI)			Holding volume (KI)	20	R 6 000.00	0	30-06-2010
Civil Structure	Tanks Plastic		Flocculation Column	Holding volume (KI)			Holding volume (KI)	20	R 7 000.00	0	30-06-2010
Civil Structure	Tanks Plastic		Flocculation Silo	Holding volume (KI)			Holding volume (KI)	20	R 10 000.00	0	30-06-2010
Civil Structure	Tanks Plastic		Grit Settling Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Humus Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Lime Mixing Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Pressure Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Sedimentation Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Septic Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Settling Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Sludge Recycle Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Small Water Holding Tank	Holding volume (KI)			Holding volume (KI)	20	R 5 000.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Plastic		Sodium Hypochlorite	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Sodium Hypochlorite Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Storage Tank Ground Level	Holding Volume (MI)			Holding Volume (MI)	20	R 4 880.00	0	30-06-2010
Civil Structure	Tanks Plastic		Storage Tank Ground Level Covered	Holding Volume (MI)			Holding Volume (MI)	20	R 2 500 000.00	0	30-06-2010
Civil Structure	Tanks Plastic		Storage Tank Underground	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Plastic		Storage Tank Underground Covered	Holding Volume (MI)			Holding Volume (MI)	20	R 2 500 000.00	0	30-06-2010
Civil Structure	Tanks Plastic		Thickener Tank	Holding Volume (MI)			Holding Volume (MI)	20		0	30-06-2010
Civil Structure	Tanks Steel		Activated Sludge Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Aerator Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Anaerobic Digester Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Anoxic Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Balancing Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Biological Filter Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Biological Reactor Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Break Pressure Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Chlorination Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Chlorine Contact Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Circular Aerator Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Clarifier Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Clarigester Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Steel		Disinfection Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Ferric Chloride Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Flocculation Column	Holding volume (KI)			Holding volume (KI)	50	R 7 000.00	0	30-06-2010
Civil Structure	Tanks Steel		Flocculation Silo	Holding volume (KI)			Holding volume (KI)	50	R 10 000.00	0	30-06-2010
Civil Structure	Tanks Steel		Grit Settling Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Humus Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Lime Mixing Tank	Holding volume (KI)			Holding volume (KI)	50	R 3 000.00	0	30-06-2010
Civil Structure	Tanks Steel		Pressure Tank	Holding volume (KI)			Holding volume (KI)	50	R 3 000.00	0	30-06-2010
Civil Structure	Tanks Steel		Sedimentation Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Septic Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Settling Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Sludge Recycle Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Small Storage Farm Dam	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Small Water Holding Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Sodium Hypochlorite	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Sodium Hypochlorite Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Storage Tank Ground Level	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Storage Tank Ground Level Covered	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Storage Tank Underground	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel		Storage Tank Underground Covered	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Steel		Thickener Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Activated Sludge Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Aerator Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Anaerobic Digester Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Anoxic Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Balancing Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Biological Filter Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Biological Reactor Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Break Pressure Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Chlorination Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Chlorine Contact Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Circular Aerator Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Clarifier Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Clarigester Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Disinfection Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Ferric Chloride Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Flocculation Column	Holding volume (KI)			Holding volume (KI)	50	R 7 000.00	0	30-06-2010
Civil Structure	Tanks Steel Panels		Flocculation Silo	Holding volume (KI)			Holding volume (KI)	50	R 10 000.00	0	30-06-2010
Civil Structure	Tanks Steel Panels		Grit Settling Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Humus Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Tanks Steel Panels		Lime Mixing Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Pressure Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Sedimentation Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Septic Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Settling Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Sludge Recycle Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Small Water Holding Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Sodium Hypochlorite	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Sodium Hypochlorite Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Storage Tank Ground Level	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Storage Tank Ground Level Covered	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Storage Tank Underground	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Storage Tank Underground Covered	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tanks Steel Panels		Thickener Tank	Holding volume (KI)			Holding volume (KI)	50		0	30-06-2010
Civil Structure	Tower		Aeration Tower	Volume (MI)			Volume (MI)	50		0	30-06-2010
Civil Structure	Tower		Stand Concrete	Length (m)	Width (m)	Height (m)	Volume (m3)	30		0	30-06-2010
Civil Structure	Tower		Stand Steel	Length (m)	Width (m)	Height (m)	Volume (m3)	30		0	30-06-2010
Civil Structure	Tower		Stand Timber	Length (m)	Width (m)	Height (m)	Volume (m3)	30		0	30-06-2010
Civil Structure	Tower		Storage Tower	Volume (MI)			Volume (MI)	50		0	30-06-2010
Civil Structure	Tower		Water Tower	Volume (MI)			Volume (MI)	50	R 20 300 000.00	0	30-06-2010
Civil Structure	UA		Asphalt Structure	Length (m)	Width (m)		Area (m2)	40	R 300.00	0	30-06-2010
Civil Structure	UA		Asphalt Surface	Length (m)	Width (m)		Area (m2)	30	R 60.00	0	30-06-2010
Civil Structure	UA		Brick Paving Structure	Length (m)	Width (m)		Area (m2)	50	R 362.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date	
Civil Structure	UA		Brick Paving Surface	Length (m)	Width (m)		Area (m2)	45	R	160.00	0	30-06-2010
Civil Structure	UA		Concrete Structure	Length (m)	Width (m)		Area (m2)	45	R	300.00	0	30-06-2010
Civil Structure	UA		Concrete Surface	Length (m)	Width (m)		Area (m2)	45	R	120.00	0	30-06-2010
Civil Structure	UA		Seal Structure	Length (m)	Width (m)		Area (m2)	30	R	200.00	0	30-06-2010
Civil Structure	UA		Seal Surface	Length (m)	Width (m)		Area (m2)	15	R	30.00	0	30-06-2010
Civil Structure	UB		Asphalt Structure	Length (m)	Width (m)		Area (m2)	40	R	300.00	0	30-06-2010
Civil Structure	UB		Asphalt Surface	Length (m)	Width (m)		Area (m2)	30	R	60.00	0	30-06-2010
Civil Structure	UB		Brick Paving Structure	Length (m)	Width (m)		Area (m2)	50	R	362.00	0	30-06-2010
Civil Structure	UB		Brick Paving Surface	Length (m)	Width (m)		Area (m2)	45	R	160.00	0	30-06-2010
Civil Structure	UB		Concrete Structure	Length (m)	Width (m)		Area (m2)	45	R	300.00	0	30-06-2010
Civil Structure	UB		Concrete Surface	Length (m)	Width (m)		Area (m2)	45	R	120.00	0	30-06-2010
Civil Structure	UB		Seal Structure	Length (m)	Width (m)		Area (m2)	30	R	200.00	0	30-06-2010
Civil Structure	UB		Seal Surface	Length (m)	Width (m)		Area (m2)	15	R	20.00	0	30-06-2010
Civil Structure	UC		Asphalt Structure	Length (m)	Width (m)		Area (m2)	40	R	300.00	0	30-06-2010
Civil Structure	UC		Asphalt Surface	Length (m)	Width (m)		Area (m2)	30	R	60.00	0	30-06-2010
Civil Structure	UC		Brick Paving Structure	Length (m)	Width (m)		Area (m2)	50	R	243.00	0	30-06-2010
Civil Structure	UC		Brick Paving Surface	Length (m)	Width (m)		Area (m2)	45	R	120.00	0	30-06-2010
Civil Structure	UC		Concrete Structure	Length (m)	Width (m)		Area (m2)	45	R	300.00	0	30-06-2010
Civil Structure	UC		Concrete Surface	Length (m)	Width (m)		Area (m2)	45	R	120.00	0	30-06-2010
Civil Structure	UC		Seal Structure	Length (m)	Width (m)		Area (m2)	30	R	200.00	0	30-06-2010
Civil Structure	UC		Seal Surface	Length (m)	Width (m)		Area (m2)	15	R	30.00	0	30-06-2010
Civil Structure	UD		Asphalt Structure	Length (m)	Width (m)		Area (m2)	40	R	282.00	0	30-06-2010
Civil Structure	UD		Asphalt Surface	Length (m)	Width (m)		Area (m2)	30	R	60.00	0	30-06-2010
Civil Structure	UD		Brick Paving Structure	Length (m)	Width (m)		Area (m2)	50	R	243.00	0	30-06-2010
Civil Structure	UD		Brick Paving Surface	Length (m)	Width (m)		Area (m2)	45	R	120.00	0	30-06-2010
Civil Structure	UD		Concrete Structure	Length (m)	Width (m)		Area (m2)	45	R	300.00	0	30-06-2010
Civil Structure	UD		Concrete Surface	Length (m)	Width (m)		Area (m2)	45	R	120.00	0	30-06-2010
Civil Structure	UD		Seal Structure	Length (m)	Width (m)		Area (m2)	30	R	282.00	0	30-06-2010
Civil Structure	UD		Seal Surface	Length (m)	Width (m)		Area (m2)	15	R	30.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Civil Structure	Unpaved		Gravel Structure	Length (m)	Width (m)		Area (m2)	25	R 163.00	0	30-06-2010
Civil Structure	Unpaved		Gravel Surface	Length (m)	Width (m)		Area (m2)	7	R 60.00	0	30-06-2010
Civil Structure	Walls		Brick Wall	Length (m)	Height (m)		Area (m2)	50	R 220.00	0	30-06-2010
Civil Structure	Walls		Brick-Mortar Wall	Length (m)	Height (m)		Area (m2)	50	R 220.00	0	30-06-2010
Civil Structure	Walls		Concrete Wall	Length (m)	Height (m)		Area (m2)	50	R 1 000.00	0	30-06-2010
Civil Structure	Walls		Gabion Wall	Length (m)	Height (m)		Area (m2)	50		0	30-06-2010
Civil Structure	Walls		Memorial Wall	Length (m)	Height (m)		Area (m2)	50		0	30-06-2010
Civil Structure	Walls		Rockfill Wall	Length (m)	Height (m)		Area (m2)	50		0	30-06-2010
Civil Structure	Walls		Rollcrete Wall	Length (m)	Height (m)		Area (m2)	50		0	30-06-2010
Civil Structure	Walls		Steel Frame Wall	Length (m)	Height (m)		Area (m2)	50	R 3 274.66	0	30-06-2010
Civil Structure	Warehouse		Brick-Mortar	Length (m)	Height (m)		Area (m2)	50	R 20 000.00	0	30-06-2010
Civil Structure	Warehouse		Concrete	Length (m)	Height (m)		Area (m2)	50	R 20 000.00	0	30-06-2010
Civil Structure	Warehouse		Steel Panels	Length (m)	Height (m)		Area (m2)	50	R 20 000.00	0	30-06-2010
Civil Structure	Waste Skip Container		10m3	No:			No:	30	R 10 000.00	0	30-06-2010
Civil Structure	Waste Skip Container		30m3	No:			No:	30	R 80 000.00	0	30-06-2010
Civil Structure			Brick Paved Pathways	Length (m)	Width (m)		Area (m2)	30	R 420.00	0	30-06-2010
Civil Structure			Cattle Grid, Double	No:			No:	50	R 30 000.00	0	30-06-2010
Civil Structure			Cattle Grid, Single	No:			No:	50	R 25 000.00	0	30-06-2010
Civil Structure			Commuter Shelter	Area (m2)			Area (m2)	15		0	30-06-2010
Civil Structure			Concrete Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	100		0	30-06-2010
Civil Structure			Concrete Pathways	Length (m)	Width (m)		Area (m2)	30		0	30-06-2010
Civil Structure			Earth Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010
Civil Structure			Footpath Network	Length (m)	Width (m)		Area (m2)	30	R 120.00	0	30-06-2010
Civil Structure			Hand Rails	Length (m)			Length (m)	20	R 500.00	0	30-06-2010
Civil Structure			Leachate System	Area (m2)			Area (m2)	50	R 100.00	0	30-06-2010
Civil Structure			Pavilion	Area (m2)			Area (m2)	15	R 5 000.00	0	30-06-2010
Civil Structure			Pipework & Fittings	Total Volume (MI)			Total Volume (MI)	15	R 50 000.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date	
Civil Structure			Retaining Blocks Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010	
Civil Structure			Rip - Rap Embankment	Wall length (m)	Wall height (m)	Wall thickness (m)	Wall volume (m3)	50		0	30-06-2010	
Civil Structure			Sluice Gate	Area (m2)			Area (m2)	50		0	30-06-2010	
Civil Structure			Spectator Seating	Area (m2)			Area (m2)	15		0	30-06-2010	
Civil Structure			Steel Cage	Length (m)			Length (m)	20	R	1 235.00	0	30-06-2010
Civil Structure			Steel Cage	Length (m)			Length (m)	30	R	1 235.00	0	30-06-2010
Civil Structure			Sub-Surface Drainage	Area (m2)			Area (m2)	50	R	200.00	0	30-06-2010
Civil Structure			Sub-Surface Drainage	Length (m)			Length (m)	50	R	200.00	0	30-06-2010
Civil Structure			Swimming Pool	Area (m2)			Area (m2)	50	R	3 500.00	0	30-06-2010
Civil Structure			Unpaved Pathways	Length (m)	Width (m)		Area (m2)	30		0	30-06-2010	
Civil Structure			Waste Pit	Volume (m3)			Volume (m3)	30		0	30-06-2010	
Civil Structure			Weir Wall Concrete	Length (m)	Height (m)		Area (m2)	50		0	30-06-2010	
Civil Structure			Wooden Decking	Length (m)	Width (m)		Area (m2)	30		0	30-06-2010	
Electrical Plant	Boards		Breaker Board	No:			No:	15	R	5 050.00	0	30-06-2010
Electrical Plant	Boards		Distribution Board	No:			No:	15	R	50 000.00	0	30-06-2010
Electrical Plant	Boards		Switchboard	No:			No:	15	R	20 000.00	0	30-06-2010
Electrical Plant	Boxes		Breaker Box	No:			No:	15	R	5 050.00	0	30-06-2010
Electrical Plant	Boxes		Electrical Box	No:			No:	15	R	25 000.00	0	30-06-2010
Electrical Plant	Boxes		Pillar Box	No:			No:	40		0	30-06-2010	
Electrical Plant	Communication		Repeater	No:			No:	30	R	54 238.72	0	30-06-2010
Electrical Plant	Communication		Telemetry (Large installation)	No:			No:	30	R	100 000.00	0	30-06-2010
Electrical Plant	Communication		Telemetry (Large installation)	No:			No:	35	R	100 000.00	0	30-06-2010
Electrical Plant	Communication		Telemetry (Small installation)	No:			No:	30	R	55 000.00	0	30-06-2010
Electrical Plant	Meters		Chemical Tester	No:			No:	15	R	15 800.00	0	30-06-2010
Electrical Plant	Meters		Chlorine Detection Sensor	No:			No:	15	R	15 800.00	0	30-06-2010
Electrical Plant	Meters		Chlorine Gas Leak Sensor	No:			No:	15	R	15 800.00	0	30-06-2010
Electrical Plant	Meters		Electricity Meter Box	No:			No:	15	R	123 000.00	0	30-06-2010
Electrical Plant	Meters		Flow Meter	No:			No:	15	R	15 000.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Electrical Plant	Meters		Level Meter	No:			No:	15	R 15 800.00	0	30-06-2010
Electrical Plant	Meters		Oxygen Meter	No:			No:	15	R 15 800.00	0	30-06-2010
Electrical Plant	Meters		PH Meter	No:			No:	15	R 15 800.00	0	30-06-2010
Electrical Plant	Meters		Sludge Flow Meter	No:			No:	15		0	30-06-2010
Electrical Plant	Meters		Ultrasonic Flow meter	No:			No:	15	R 15 800.00	0	30-06-2010
Electrical Plant	Meters		Water Meter	No:			No:	15	R 10 000.00	0	30-06-2010
Electrical Plant	Meters		Water Meter	No:			No:	50	R 10 000.00	0	30-06-2010
Electrical Plant	Motors		Borehole Motor & Pump	Pump rating (kW)			Pump rating (kW)	15		0	30-06-2010
Electrical Plant	Motors		Diesel Motor	Pump rating (kW)			Pump rating (kW)	15	R 20 000.00	0	30-06-2010
Electrical Plant	Motors		Electrical Motor	Pump rating (kW)			Pump rating (kW)	15	R 25 000.00	0	30-06-2010
Electrical Plant	Motors		Swimming Pool Electrical Motor	Power rating (kW)			Power rating (kW)	15		0	30-06-2010
Electrical Plant	Power Supply		Battery Pack	kVA rating			kVA rating	5	R 5 000.00	0	30-06-2010
Electrical Plant	Power Supply		Generator	Power rating (kW)			Power rating (kW)	15	R 49 955.00	0	30-06-2010
Electrical Plant	Power Supply		Solar Panel	No:			No:	30	R 40 000.00	0	30-06-2010
Electrical Plant	Power Supply		Transformer (11kV)	kVA rating			kVA rating	50		0	30-06-2010
Electrical Plant	Power Supply		UPS-System	No:			No:	15		0	30-06-2010
Electrical Plant	Power Supply		Wind Charger	kVA rating			kVA rating	5		0	30-06-2010
Electrical Plant	Switches		Emergency Cut-off Switch	No:			No:	15	R 2 000.00	0	30-06-2010
Electrical Plant	Switches		Flow Regulator	No:			No:	30	R 4 000.00	0	30-06-2010
Electrical Plant	Switches		Flow Switch	No:			No:	15	R 2 200.00	0	30-06-2010
Electrical Plant	Switches		Switch Gear	No:			No:	15	R 2 200.00	0	30-06-2010
Electrical Plant	Switches		Transformer Switch (11kV)	kVA rating			kVA rating	50		0	30-06-2010
High Mast Lighting	Steel Mast		1000W MV	No:			No:	20	R 239 364.00	0	30-06-2010
Mechanical Plant	Cranes		Gantry Crane	Mass (tons)			Mass (tons)	30	R 50 000.00	0	30-06-2010
Mechanical Plant	Cranes		Mechanical Crane	Mass (tons)			Mass (tons)	30	R 50 000.00	0	30-06-2010
Mechanical Plant	Cranes		Overhead Gantry	Mass (tons)			Mass (tons)	30	R 50 000.00	0	30-06-2010
Mechanical Plant	Cranes		Overhead Gantry Cantilever	Mass (tons)			Mass (tons)	30	R 50 000.00	0	30-06-2010
Mechanical Plant	Cranes		Overhead Gantry Crane	Mass (tons)			Mass (tons)	30		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Mechanical Plant	Filtration		Activated Carbon Filter	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010
Mechanical Plant	Filtration		Air Blower Filter	Holding volume (m3)			Holding volume (m3)	15	R 8 000.00	0	30-06-2010
Mechanical Plant	Filtration		Disc Filter	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010
Mechanical Plant	Filtration		Filter Tank	Holding volume (m3)			Holding volume (m3)	15	R 25 000.00	0	30-06-2010
Mechanical Plant	Filtration		Filter Tank	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010
Mechanical Plant	Filtration		Gravity Sand Filter	Holding volume (m3)			Holding volume (m3)	15	R 15 000.00	0	30-06-2010
Mechanical Plant	Filtration		Gravity Sand Filter	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010
Mechanical Plant	Filtration		High Pressure Filter	Holding volume (m3)			Holding volume (m3)	15	R 10 000.00	0	30-06-2010
Mechanical Plant	Filtration		High Pressure Filter	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010
Mechanical Plant	Filtration		Inline Filter	Holding volume (m3)			Holding volume (m3)	15	R 5 000.00	0	30-06-2010
Mechanical Plant	Filtration		Inline Filter	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010
Mechanical Plant	Filtration		In-Line Gravity Feed Filter	Holding volume (m3)			Holding volume (m3)	15	R 2 000.00	0	30-06-2010
Mechanical Plant	Filtration		In-Line Gravity Feed Filter	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010
Mechanical Plant	Filtration		Multimedia Filter	Holding volume (m3)			Holding volume (m3)	15	R 6 250.00	0	30-06-2010
Mechanical Plant	Filtration		Pressure Filter	Holding volume (m3)			Holding volume (m3)	15	R 20 000.00	0	30-06-2010
Mechanical Plant	Filtration		Pressure Filter	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010
Mechanical Plant	Filtration		Rapid Sand Filter	Holding volume (m3)			Holding volume (m3)	15	R 5 000.00	0	30-06-2010
Mechanical Plant	Filtration		Rapid Sand Filter	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010
Mechanical Plant	Filtration		Sand Filter	Holding volume (m3)			Holding volume (m3)	15	R 5 500.00	0	30-06-2010
Mechanical Plant	Filtration		Sand Filter	Holding volume (m3)			Holding volume (m3)	15		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Mechanical Plant	Filtration		Swimming Pool Filter	Power rating (kW)			Power rating (kW)	15	R 25 000.00	0	30-06-2010
Mechanical Plant	Gears		Aerator Tank Gearbox	No:			No:	15	R 30 000.00	0	30-06-2010
Mechanical Plant	Gears		Clarifier Bridge Gearbox	No:			No:	15	R 30 000.00	0	30-06-2010
Mechanical Plant	Gears		Gearbox Grease Device	No:			No:	15	R 30 000.00	0	30-06-2010
Mechanical Plant	Gears		Lime Feeder Gearbox	No:			No:	15		0	30-06-2010
Mechanical Plant	Gears		Mechanical Bridge Gearbox	No:			No:	15	R 30 000.00	0	30-06-2010
Mechanical Plant	Gears		Mechanical Bridge Gearbox	No:			No:	15	R 50 000.00	0	30-06-2010
Mechanical Plant	Gears		Mechanical Screen Gearbox	Screen area (m2)			Screen area (m2)	15	R 5 000.00	0	30-06-2010
Mechanical Plant	Gears		Mechanical Screen Gearbox	Screen area (m2)			Screen area (m2)	15	R 20 000.00	0	30-06-2010
Mechanical Plant	Gears		Mechanical Screen Gearbox	Screen area (m2)			Screen area (m2)	15		0	30-06-2010
Mechanical Plant	Meters		Flow Meter	No:			No:	15	R 15 000.00	0	30-06-2010
Mechanical Plant	Meters		Pressure Gauge	No:			No:	15	R 1 000.00	0	30-06-2010
Mechanical Plant	Meters		Pressure Gauge	No:			No:	15		0	30-06-2010
Mechanical Plant	Ponds		Saturation Pond Mechanical Plant	No:			No:	15		0	30-06-2010
Mechanical Plant	Ponds		Stabilisation Pond Mechanical Plant	No:			No:	15	R 238.65	0	30-06-2010
Mechanical Plant	Ponds		Stabilisation Pond Mechanical Plant	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Aluminium mixer	No:			No:	15	R 98 304.00	0	30-06-2010
Mechanical Plant	Processing General		Aluminium mixer	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Aluminium Sulphate Doser	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Bio-Disk	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Boiler	Holding volume (m3)			Holding volume (m3)	50	R 5 500.00	0	30-06-2010
Mechanical Plant	Processing General		Boiler	Holding volume (m3)			Holding volume (m3)	50		0	30-06-2010
Mechanical Plant	Processing General		Chalk Mixer	No:			No:	15	R 30 000.00	0	30-06-2010
Mechanical Plant	Processing General		Chalk Mixer	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Chlorine Cylinder Doser	No:			No:	15	R 50 000.00	0	30-06-2010
Mechanical Plant	Processing General		Chlorine Cylinder Doser	No:			No:	15	R 67 798.40	0	30-06-2010
Mechanical Plant	Processing General		Chlorine Dosing Unit	No:			No:	15	R 15 125.00	0	30-06-2010
Mechanical Plant	Processing General		Chlorine Dosing Unit	No:			No:	15	R 49 152.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Mechanical Plant	Processing General		Chlorine Dosing Unit	No:			No:	15	R 50 000.00	0	30-06-2010
Mechanical Plant	Processing General		Chlorine Injector, In-line	No:			No:	15	R 6 050.00	0	30-06-2010
Mechanical Plant	Processing General		Dewatering Plant (Large Works)	Volume (Ml/day)			Volume (Ml/day)	15	R 1 000 000.00	0	30-06-2010
Mechanical Plant	Processing General		Dewatering Plant (Small Works)	Volume (Ml/day)			Volume (Ml/day)	15	R 1 700 000.00	0	30-06-2010
Mechanical Plant	Processing General		Incinerator	No:			No:	50	R 65 000.00	0	30-06-2010
Mechanical Plant	Processing General		Incinerator	No:			No:	50		0	30-06-2010
Mechanical Plant	Processing General		Lime Feed Hopper and Mixer	No:			No:	15	R 53 000.00	0	30-06-2010
Mechanical Plant	Processing General		Lime Feed Hopper and Mixer	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Lime Feeder	No:			No:	15	R 50 000.00	0	30-06-2010
Mechanical Plant	Processing General		Lime Feeder	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Mechanical Aerator	No:			No:	15	R 250 000.00	0	30-06-2010
Mechanical Plant	Processing General		Mechanical Aerator	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Mechanical Clarigester	No:			No:	15	R 65 000.00	0	30-06-2010
Mechanical Plant	Processing General		Ozone Generator And Dosing Unit	No:			No:	15	R 53 000.00	0	30-06-2010
Mechanical Plant	Processing General		Ozone Generator And Dosing Unit	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Polyelectrolyte Feed Hopper and Mixer	No:			No:	15	R 53 000.00	0	30-06-2010
Mechanical Plant	Processing General		Polyelectrolyte Feed Hopper and Mixer	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Potassium Permanganate Doser	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Reverse osmosis pressure vessel	Volume (Ml/day)			Volume (Ml/day)	15		0	30-06-2010
Mechanical Plant	Processing General		Sludge Mixer	No:			No:	15	R 1 782 000.00	0	30-06-2010
Mechanical Plant	Processing General		Sludge Mixer	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Sodium Hypochlorite Doser	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing General		Vibrator	No:			No:	15	R 53 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Aerator Tank Brush	No:			No:	15	R 25 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Aerator Tank Brush	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing Tank		Aerator Tank Mechanical Plant	No:			No:	15	R 30 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Aerator Tank Mechanical Plant	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing Tank		Anaerobic Digester Tank Mechanical Plant	No:			No:	15	R 65 000.00	0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Mechanical Plant	Processing Tank		Biological Filter Mechanical Plant	No:			No:	15	R 65 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Biological Reactor Mechanical Plant	No:			No:	15	R 50 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Clarifier Bridge Mechanical Plant	No:			No:	15	R 20 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Clarifier Tank Mechanical Plant	No:			No:	15	R 30 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Clarigester Tank Mechanical Plant	No:			No:	15		0	30-06-2010
Mechanical Plant	Processing Tank		Disinfection Tank Mechanical Plant	No:			No:	15	R 50 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Grit Settling Tank Mechanical Plant	No:			No:	15	R 55 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Humus Tank Mechanical Plant	No:			No:	15	R 65 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Settling Tank Mechanical Plant	No:			No:	15	R 65 000.00	0	30-06-2010
Mechanical Plant	Processing Tank		Thickener Tank Mechanical Plant	No:			No:	15	R 65 000.00	0	30-06-2010
Mechanical Plant	Pumps		Actuator Pump	No:			No:	15	R 33 899.20	0	30-06-2010
Mechanical Plant	Pumps		Actuator Pump	No:			No:	15		0	30-06-2010
Mechanical Plant	Pumps		Air Blower Pump	No:			No:	30	R 3 025.00	0	30-06-2010
Mechanical Plant	Pumps		Air Blower Pump	No:			No:	30		0	30-06-2010
Mechanical Plant	Pumps		Chlorinator Pump	Pump rating (kW)			Pump rating (kW)	15	R 3 025.00	0	30-06-2010
Mechanical Plant	Pumps		Chlorinator Pump	Pump rating (kW)			Pump rating (kW)	15		0	30-06-2010
Mechanical Plant	Pumps		Dosing Pump	Pump rating (kW)			Pump rating (kW)	15	R 3 025.00	0	30-06-2010
Mechanical Plant	Pumps		Dosing Pump	Pump rating (kW)			Pump rating (kW)	15		0	30-06-2010
Mechanical Plant	Pumps		Hand Pump	No:			No:	30		0	30-06-2010
Mechanical Plant	Pumps		Lister Blackstone Pump	Pump rating (RPM)			Pump rating (RPM)	30		0	30-06-2010
Mechanical Plant	Pumps		Non-submersible Pump	Pump rating (kW)			Pump rating (kW)	15	R 7 424.00	0	30-06-2010
Mechanical Plant	Pumps		Non-submersible Pump	Pump rating (kW)			Pump rating (kW)	15	R 25 000.00	0	30-06-2010
Mechanical Plant	Pumps		Non-submersible Pump	Pump rating (kW)			Pump rating (kW)	15		0	30-06-2010
Mechanical Plant	Pumps		Peddle Pump	Pump rating (kW)			Pump rating (kW)	15		0	30-06-2010
Mechanical Plant	Pumps		Play Pump	Pump rating (kW)			Pump rating (kW)	15		0	30-06-2010
Mechanical Plant	Pumps		Polyelectrolyte Transfer Pump	Pump rating (kW)			Pump rating (kW)	15	R 60 000.00	0	30-06-2010
Mechanical Plant	Pumps		Polyelectrolyte Transfer Pump	Pump rating (kW)			Pump rating (kW)	15		0	30-06-2010
Mechanical Plant	Pumps		Sludge Pump	Pump rating (kW)			Pump rating (kW)	15	R 30 000.00	0	30-06-2010
Mechanical Plant	Pumps		Sludge Pump	Pump rating (kW)			Pump rating (kW)	15		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Mechanical Plant	Pumps		Submersible Pump	Pump rating (kW)			Pump rating (kW)	15	R 22 000.00	0	30-06-2010
Mechanical Plant	Pumps		Submersible Pump	Pump rating (kW)			Pump rating (kW)	15	R 31 940.00	0	30-06-2010
Mechanical Plant	Pumps		Submersible Pump	Pump rating (kW)			Pump rating (kW)	15	R 49 500.00	0	30-06-2010
Mechanical Plant	Pumps		Submersible Pump	Pump rating (kW)			Pump rating (kW)	15	R 66 430.00	0	30-06-2010
Mechanical Plant	Pumps		Submersible Pump	Pump rating (kW)			Pump rating (kW)	15		0	30-06-2010
Mechanical Plant	Pumps		Swimming Pool Pump	Power rating (kW)			Power rating (kW)	15	R 25 000.00	0	30-06-2010
Mechanical Plant	Pumps		Wind Pump	Height (m)			Height (m)	30	R 167 984.00	0	30-06-2010
Mechanical Plant	Pumps		Wind Pump	Height (m)			Height (m)	30		0	30-06-2010
Mechanical Plant	Valves		Air Release	Diameter (mm):			Diameter (mm):	15	R 27.00	0	30-06-2010
Mechanical Plant	Valves		Automatic Gate Valve	Diameter (mm):			Diameter (mm):	15	R 88.00	0	30-06-2010
Mechanical Plant	Valves		Butterfly	Diameter (mm):			Diameter (mm):	15	R 140.00	0	30-06-2010
Mechanical Plant	Valves		Double Air	Diameter (mm):			Diameter (mm):	15	R 27.00	0	30-06-2010
Mechanical Plant	Valves		Double Air	Diameter (mm):			Diameter (mm):	15		0	30-06-2010
Mechanical Plant	Valves		Float	Diameter (mm):			Diameter (mm):	15	R 290.00	0	30-06-2010
Mechanical Plant	Valves		Gate	Diameter (mm):			Diameter (mm):	15	R 88.00	0	30-06-2010
Mechanical Plant	Valves		Isolation	Diameter (mm):			Diameter (mm):	15	R 30.00	0	30-06-2010
Mechanical Plant	Valves		Isolation	Diameter (mm):			Diameter (mm):	15		0	30-06-2010
Mechanical Plant	Valves		Needle	Diameter (mm):			Diameter (mm):	15		0	30-06-2010
Mechanical Plant	Valves		Non-Return	Diameter (mm):			Diameter (mm):	15	R 55.00	0	30-06-2010
Mechanical Plant	Valves		Non-Return	Diameter (mm):			Diameter (mm):	15		0	30-06-2010
Mechanical Plant	Valves		Pressure Control	Diameter (mm):			Diameter (mm):	15	R 100.00	0	30-06-2010
Mechanical Plant	Valves		Pressure Control	Diameter (mm):			Diameter (mm):	15		0	30-06-2010
Mechanical Plant	Valves		Scour	Diameter (mm):			Diameter (mm):	15	R 30.00	0	30-06-2010
Mechanical Plant	Valves		Scour	Diameter (mm):			Diameter (mm):	15		0	30-06-2010
Mechanical Plant	Valves		Sieve	Diameter (mm):			Diameter (mm):	15	R 27.00	0	30-06-2010
Mechanical Plant	Valves		Sieve	Diameter (mm):			Diameter (mm):	15		0	30-06-2010
Mechanical Plant			Belt Press	Area (m2)			Area (m2)	15	R 170 000.00	0	30-06-2010
Mechanical Plant			Compressor	No:			No:	15	R 5 000.00	0	30-06-2010
Mechanical Plant			Conductivity/TDS controller	No:			No:	1	R 1.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Mechanical Plant			Conveyor Belt	Area (m2)			Area (m2)	15	R 17 000.00	0	30-06-2010
Mechanical Plant			Coupling	No:			No:	15		0	30-06-2010
Mechanical Plant			Grit Remover	No:			No:	15	R 5 000.00	0	30-06-2010
Mechanical Plant			Grit Remover	No:			No:	15		0	30-06-2010
Mechanical Plant			Hydrants	No:			No:	15	R 2 500.00	0	30-06-2010
Mechanical Plant			Muffin Monster/Mencher	No:			No:	15	R 80 000.00	0	30-06-2010
Mechanical Plant			Muffin Monster/Mencher	No:			No:	15		0	30-06-2010
Mechanical Plant			Odour Control (Bio-cube)	No:			No:	30	R 1 500 000.00	0	30-06-2010
Mechanical Plant			Penstockgate	Diameter (m)			Diameter (m)	50	R 88.00	0	30-06-2010
Mechanical Plant			Penstockgate	Diameter (m)			Diameter (m)	50	R 60 000.00	0	30-06-2010
Mechanical Plant			Penstockgate	Diameter (m)			Diameter (m)	50		0	30-06-2010
Mechanical Plant			Screw Lifting Device	No:			No:	15	R 312 000.00	0	30-06-2010
Mechanical Plant			Screw Mechanical Plant	No:			No:	15	R 1 950.00	0	30-06-2010
Mechanical Plant			Screw Mechanical Plant	No:			No:	15	R 71 500.00	0	30-06-2010
Mechanical Plant			Sludge Burner	No:			No:	30	R 65 000.00	0	30-06-2010
Mechanical Plant			Sludge Compressor Unit	No:			No:	15		0	30-06-2010
Mechanical Plant			Sludge Screw Lifting Device	No:			No:	15	R 312 000.00	0	30-06-2010
Mechanical Plant			Sludge Screw Lifting Device	No:			No:	15		0	30-06-2010
Mechanical Plant			Tap, Clean Water	No:			No:	15	R 500.00	0	30-06-2010
Mechanical Plant			Tap, Clean Water	No:			No:	15		0	30-06-2010
Mechanical Plant			Tap, Standpipe	No:			No:	15	R 50 000.00	0	30-06-2010
Mechanical Plant			Tap, Standpipe	No:			No:	15		0	30-06-2010
Mechanical Plant			Vortex Mechanism	No:			No:	15	R 1 782 000.00	0	30-06-2010
Mechanical Plant			Vortex Mechanism	No:			No:	15		0	30-06-2010
Metering Unit	Current Transformer/Voltage Transformer		11kV	No:			No:	45	R 147 423.38	0	30-06-2010
Other Assets	11kV		Kiosk	No:			No:	30	R 8 000.00	0	30-06-2010
Other Assets	Access Road		Asphalt	Length (m)	Width (m)		Area (m2)	30	R 60.00	0	30-06-2010
Other Assets	Access Road		Asphalt	Length (m)	Width (m)		Area (m2)	30	R 150.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Other Assets	Access Road		Asphalt	Length (m)	Width (m)		Area (m2)	30		0	30-06-2010
Other Assets	Access Road		Footpath	Length (m)	Width (m)		Area (m2)	30	R 70.00	0	30-06-2010
Other Assets	Access Road		Footpath	Length (m)	Width (m)		Area (m2)	30	R 173.00	0	30-06-2010
Other Assets	Access Road		Footpath	Length (m)	Width (m)		Area (m2)	30		0	30-06-2010
Other Assets	Access Road		Paved Road	Length (m)	Width (m)		Area (m2)	30	R 150.00	0	30-06-2010
Other Assets	Access Road		Paved Road	Length (m)	Width (m)		Area (m2)	30	R 403.50	0	30-06-2010
Other Assets	Access Road		Paved Road	Length (m)	Width (m)		Area (m2)	30		0	30-06-2010
Other Assets	Access Road		Track	Length (m)	Width (m)		Area (m2)	15	R 48.40	0	30-06-2010
Other Assets	Access Road		Track	Length (m)	Width (m)		Area (m2)	15		0	30-06-2010
Other Assets	Access Road		Unpaved Road	Length (m)	Width (m)		Area (m2)	10	R 70.00	0	30-06-2010
Other Assets	Access Road		Unpaved Road	Length (m)	Width (m)		Area (m2)	10	R 138.00	0	30-06-2010
Other Assets	Access Road		Unpaved Road	Length (m)	Width (m)		Area (m2)	10		0	30-06-2010
Other Assets	Fencing		Brick Wall	Length (m)			Length (m)	50	R 220.00	0	30-06-2010
Other Assets	Fencing		Brick Wall	Length (m)			Length (m)	50	R 800.00	0	30-06-2010
Other Assets	Fencing		Brick Wall	Length (m)			Length (m)	50		0	30-06-2010
Other Assets	Fencing		Brick-Mortar	Length (m)			Length (m)	50	R 220.00	0	30-06-2010
Other Assets	Fencing		Concrete Palisade Fence	Length (m)			Length (m)	15	R 350.00	0	30-06-2010
Other Assets	Fencing		Concrete Palisade Fence	Length (m)			Length (m)	15	R 1 000.00	0	30-06-2010
Other Assets	Fencing		Concrete Palisade Fence	Length (m)			Length (m)	15		0	30-06-2010
Other Assets	Fencing		Electric Fence	Length (m)			Length (m)	15	R 880.00	0	30-06-2010
Other Assets	Fencing		Electric Fence	Length (m)			Length (m)	15		0	30-06-2010
Other Assets	Fencing		Mesh Balustrades	Length (m)			Length (m)	15	R 1 500.00	0	30-06-2010
Other Assets	Fencing		Mesh Balustrades	Length (m)			Length (m)	15		0	30-06-2010
Other Assets	Fencing		Razor Mesh Fence	Length (m)			Length (m)	15	R 150.00	0	30-06-2010
Other Assets	Fencing		Steel Palisade Fence	Length (m)			Length (m)	15	R 250.00	0	30-06-2010
Other Assets	Fencing		Steel Palisade Fence	Length (m)			Length (m)	15	R 1 582.00	0	30-06-2010
Other Assets	Fencing		Steel Palisade Fence	Length (m)			Length (m)	15	R 2 000.00	0	30-06-2010
Other Assets	Fencing		Steel Palisade Fence	Length (m)			Length (m)	15		0	30-06-2010
Other Assets	Fencing		Vibrocrete	Length (m)			Length (m)	15	R 250.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Other Assets	Fencing		Vibrocrete Fence	Length (m)			Length (m)	15	R 250.00	0	30-06-2010
Other Assets	Fencing		Vibrocrete Fence	Length (m)			Length (m)	15	R 450.00	0	30-06-2010
Other Assets	Fencing		Vibrocrete Fence	Length (m)			Length (m)	15	R 770.00	0	30-06-2010
Other Assets	Fencing		Vibrocrete Fence	Length (m)			Length (m)	15		0	30-06-2010
Other Assets	Fencing		Wire Fence	Length (m)			Length (m)	15	R 150.00	0	30-06-2010
Other Assets	Fencing		Wire Fence	Length (m)			Length (m)	15	R 165.00	0	30-06-2010
Other Assets	Fencing		Wire Fence	Length (m)			Length (m)	15	R 500.00	0	30-06-2010
Other Assets	Fencing		Wire Fence	Length (m)			Length (m)	15		0	30-06-2010
Other Assets	Fencing		Wooden Fence	Length (m)			Length (m)	15	R 150.00	0	30-06-2010
Other Assets	Fencing		Wooden Fence	Length (m)			Length (m)	15	R 198.00	0	30-06-2010
Other Assets	Fencing		Wooden Fence	Length (m)			Length (m)	15	R 600.00	0	30-06-2010
Other Assets	Fencing		Wooden Fence	Length (m)			Length (m)	15		0	30-06-2010
Other Assets	Garden Furniture		Bench	No:			No:	15	R 5 000.00	0	30-06-2010
Other Assets	Garden Furniture		Bench	No:			No:	15		0	30-06-2010
Other Assets	Garden Furniture		Braai Structure	Length (m)	Width (m)	Height (m)	Wall volume (m3)	25		0	30-06-2010
Other Assets	Garden Furniture		Play Structure	No:			No:	15	R 5 000.00	0	30-06-2010
Other Assets	Garden Furniture		Play Structure	No:			No:	15		0	30-06-2010
Other Assets	Landscaping		Asphalt	Area (m2)			Area (m2)	50	R 494.00	0	30-06-2010
Other Assets	Landscaping		Concrete	Area (m2)			Area (m2)	50	R 1 000.00	0	30-06-2010
Other Assets	Landscaping		Grass	Area (m2)			Area (m2)	50	R 494.00	0	30-06-2010
Other Assets	Landscaping		Paved	Area (m2)			Area (m2)	50	R 494.00	0	30-06-2010
Other Assets	Lighting		Floodlight	No:			No:	15	R 3 968.00	0	30-06-2010
Other Assets	Lighting		Floodlight	No:			No:	15	R 4 000.00	0	30-06-2010
Other Assets	Lighting		Floodlight	No:			No:	15	R 15 000.00	0	30-06-2010
Other Assets	Lighting		Floodlight	No:			No:	15		0	30-06-2010
Other Assets	Lighting		High Mass Light	No:			No:	15	R 239 364.00	0	30-06-2010
Other Assets	Lighting		High Mass Light	No:			No:	15		0	30-06-2010
Other Assets	Lighting		High Mass Light Stand	Length (m)			Length (m)	50	R 7 000.00	0	30-06-2010
Other Assets	Lighting		High Mass Light Stand	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Other Assets	Lighting		Security Lamppost	No:			No:	15		0	30-06-2010
Other Assets	Lighting		Spotlight	No:			No:	15	R 1 000.00	0	30-06-2010
Other Assets	Lighting		Spotlight	No:			No:	15	R 4 000.00	0	30-06-2010
Other Assets	Lighting		Spotlight	No:			No:	15		0	30-06-2010
Other Assets	Lighting		Streetlight	No:			No:	25	R 6 900.00	0	30-06-2010
Other Assets	Lightning	66kV	Earth Rods	No:			No:	50	R 5 000.00	0	30-06-2010
Other Assets	Lightning		Arrestors	No:			No:	50	R 5 000.00	0	30-06-2010
Other Assets	Lightning		Earth Rods	No:			No:	50	R 5 000.00	0	30-06-2010
Other Assets	Road Signs		General Sign	No:			No:	10	R 1 847.00	0	30-06-2010
Other Assets	Road Signs		General Sign	No:			No:	10		0	30-06-2010
Other Assets	Road Signs		Information Sign	No:			No:	10	R 1 847.00	0	30-06-2010
Other Assets	Road Signs		Information Sign	No:			No:	10		0	30-06-2010
Other Assets	Road Signs		Overhead Gantry Cantilever	No:			No:	50	R 150 000.00	0	30-06-2010
Other Assets	Road Signs		Overhead Gantry Portal	No:			No:	50	R 250 000.00	0	30-06-2010
Other Assets	Road Signs		Road Signs	No:			No:	10	R 1 847.00	0	30-06-2010
Other Assets	Road Signs		Road Signs	No:			No:	10		0	30-06-2010
Other Assets	Road Signs		Road Signs Network	No:			No:	10	R 500.00	0	30-06-2010
Other Assets	Road Signs		Road Signs Network	No:			No:	10		0	30-06-2010
Other Assets	Signalized Intersection		Double Lane-Double Carriageway	No:			No:	10	R 400 000.00	0	30-06-2010
Other Assets	Signalized Intersection		Double Lane-Single Carriageway	No:			No:	10	R 320 000.00	0	30-06-2010
Other Assets	Signalized Intersection		Pedestrian Robot	No:			No:	10	R 50 000.00	0	30-06-2010
Other Assets	Signalized Intersection		Single Lane-Single Carriageway	No:			No:	10	R 230 000.00	0	30-06-2010
Other Assets	Signalized Intersection		Traffic Robot	No:			No:	10	R 400 000.00	0	30-06-2010
Other Assets	Small Building		Asbestos Sheeting	Area (m2)			Area (m2)	50	R 800.00	0	30-06-2010
Other Assets	Small Building		Brick-Mortar	Area (m2)			Area (m2)	30	R 3 335.00	0	30-06-2010
Other Assets	Small Building		Brick-Mortar	Area (m2)			Area (m2)	30	R 5 000.00	0	30-06-2010
Other Assets	Small Building		Brick-Mortar	Area (m2)			Area (m2)	30		0	30-06-2010
Other Assets	Small Building		Commuter Shelter	Area (m2)			Area (m2)	30	R 5 000.00	0	30-06-2010
Other Assets	Small Building		Concrete	Area (m2)			Area (m2)	50	R 4 400.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Other Assets	Small Building		Concrete	Area (m2)			Area (m2)	50		0	30-06-2010
Other Assets	Small Building		Container	Area (m2)			Area (m2)	30	R 22 000.00	0	30-06-2010
Other Assets	Small Building		Iron Sheeting	Area (m2)			Area (m2)	30	R 1 000.00	0	30-06-2010
Other Assets	Small Building		Iron Sheeting	Area (m2)			Area (m2)	30	R 1 100.00	0	30-06-2010
Other Assets	Small Building		Iron Sheeting	Area (m2)			Area (m2)	30		0	30-06-2010
Other Assets	Small Building		Roof Structure On Columns	Area (m2)			Area (m2)	50	R 4 400.00	0	30-06-2010
Other Assets	Small Building		Temporary Structure	Area (m2)			Area (m2)	15	R 605.00	0	30-06-2010
Other Assets	Small Building		Temporary Structure	Area (m2)			Area (m2)	15		0	30-06-2010
Other Assets	Small Building		Wood	Area (m2)			Area (m2)	15	R 700.00	0	30-06-2010
Other Assets	Street Lighting		Street Light Cable Network	Length (m)			Length (m)	50	R 6 900.00	0	30-06-2010
Other Assets	Street Lighting		Streetlights	No:			No:	25	R 7 000.00	0	30-06-2010
Other Assets			Air Conditioner	Area (m2)			Area (m2)	15	R 1 568.00	0	30-06-2010
Other Assets			Air Conditioner	Area (m2)			Area (m2)	15		0	30-06-2010
Other Assets			Alarm System	No:			No:	30	R 5 000.00	0	30-06-2010
Other Assets			Extractor Fans	Area (m2)			Area (m2)	10	R 966.00	0	30-06-2010
Other Assets			Extractor Fans	Area (m2)			Area (m2)	10		0	30-06-2010
Other Assets			General Sign	No:			No:	10		0	30-06-2010
Other Assets			Hand Rail	Length (m)			Length (m)	20	R 500.00	0	30-06-2010
Other Assets			House Connection	No:			No:	50	R 1 085.00	0	30-06-2010
Other Assets			House Connection	No:			No:	50	R 5 970.00	0	30-06-2010
Other Assets			Information Sign	No:			No:	10		0	30-06-2010
Other Assets			Rain gauge	No:			No:	5		0	30-06-2010
Other Assets			Steel Ladder	No:			No:	30	R 5 000.00	0	30-06-2010
Other Assets			Steel Staircase	No:			No:	30	R 5 000.00	0	30-06-2010
Other Assets			Water Cooler	No:			No:	15		0	30-06-2010
Other Assets			Weather Station	No:			No:	25	R 50 000.00	0	30-06-2010
Other Assets			Weather Station	No:			No:	25		0	30-06-2010
Other Assets			Weighbridge	Mass (tons)			Mass (tons)	50	R 13 000.00	0	30-06-2010
Pipes	AC		1000mm	Length (m)			Length (m)	50	R 3 726.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	AC		1000mm	Length (m)			Length (m)	50	R 4 355.00	0	30-06-2010
Pipes	AC		100mm	Length (m)			Length (m)	50	R 280.00	0	30-06-2010
Pipes	AC		100mm	Length (m)			Length (m)	50	R 332.00	0	30-06-2010
Pipes	AC		100mm	Length (m)			Length (m)	50	R 356.00	0	30-06-2010
Pipes	AC		100mm	Length (m)			Length (m)	50	R 399.30	0	30-06-2010
Pipes	AC		1050mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		1100mm	Length (m)			Length (m)	50	R 9 808.00	0	30-06-2010
Pipes	AC		1100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		110mm	Length (m)			Length (m)	50	R 290.00	0	30-06-2010
Pipes	AC		110mm	Length (m)			Length (m)	50	R 356.00	0	30-06-2010
Pipes	AC		110mm	Length (m)			Length (m)	50	R 485.21	0	30-06-2010
Pipes	AC		1200mm	Length (m)			Length (m)	50	R 11 064.00	0	30-06-2010
Pipes	AC		1200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		1250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		125mm	Length (m)			Length (m)	50	R 394.00	0	30-06-2010
Pipes	AC		125mm	Length (m)			Length (m)	50	R 577.78	0	30-06-2010
Pipes	AC		125mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		1350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		140mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		1500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		150mm	Length (m)			Length (m)	50	R 310.00	0	30-06-2010
Pipes	AC		150mm	Length (m)			Length (m)	50	R 459.00	0	30-06-2010
Pipes	AC		150mm	Length (m)			Length (m)	50	R 485.00	0	30-06-2010
Pipes	AC		150mm	Length (m)			Length (m)	50	R 670.34	0	30-06-2010
Pipes	AC		15mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		160mm	Length (m)			Length (m)	50	R 485.00	0	30-06-2010
Pipes	AC		160mm	Length (m)			Length (m)	50	R 670.34	0	30-06-2010
Pipes	AC		160mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		1650mm	Length (m)			Length (m)	50		0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	AC		175mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		1800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		180mm	Length (m)			Length (m)	50	R 330.00	0	30-06-2010
Pipes	AC		180mm	Length (m)			Length (m)	50	R 500.00	0	30-06-2010
Pipes	AC		180mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		2000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		200mm	Length (m)			Length (m)	50	R 340.00	0	30-06-2010
Pipes	AC		200mm	Length (m)			Length (m)	50	R 597.00	0	30-06-2010
Pipes	AC		200mm	Length (m)			Length (m)	50	R 871.20	0	30-06-2010
Pipes	AC		2025mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		20mm	Length (m)			Length (m)	50	R 188.00	0	30-06-2010
Pipes	AC		20mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		2250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		225mm	Length (m)			Length (m)	50	R 580.00	0	30-06-2010
Pipes	AC		225mm	Length (m)			Length (m)	50	R 670.00	0	30-06-2010
Pipes	AC		225mm	Length (m)			Length (m)	50	R 1 353.00	0	30-06-2010
Pipes	AC		225mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		250mm	Length (m)			Length (m)	50	R 345.00	0	30-06-2010
Pipes	AC		250mm	Length (m)			Length (m)	50	R 746.00	0	30-06-2010
Pipes	AC		250mm	Length (m)			Length (m)	50	R 950.00	0	30-06-2010
Pipes	AC		250mm	Length (m)			Length (m)	50	R 1 445.00	0	30-06-2010
Pipes	AC		25mm	Length (m)			Length (m)	50	R 185.00	0	30-06-2010
Pipes	AC		25mm	Length (m)			Length (m)	50	R 229.00	0	30-06-2010
Pipes	AC		25mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		2700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		275mm	Length (m)			Length (m)	50	R 650.00	0	30-06-2010
Pipes	AC		275mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		3000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		300mm	Length (m)			Length (m)	50	R 927.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	AC		300mm	Length (m)			Length (m)	50	R 1 150.00	0	30-06-2010
Pipes	AC		300mm	Length (m)			Length (m)	50	R 1 702.69	0	30-06-2010
Pipes	AC		300mm	Length (m)			Length (m)	50	R 1 909.00	0	30-06-2010
Pipes	AC		300mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		315mm	Length (m)			Length (m)	50	R 1 323.74	0	30-06-2010
Pipes	AC		315mm	Length (m)			Length (m)	50	R 2 175.40	0	30-06-2010
Pipes	AC		315mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		325mm	Length (m)			Length (m)	50	R 2 353.00	0	30-06-2010
Pipes	AC		325mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		32mm	Length (m)			Length (m)	50	R 284.00	0	30-06-2010
Pipes	AC		32mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		350mm	Length (m)			Length (m)	50	R 1 080.00	0	30-06-2010
Pipes	AC		350mm	Length (m)			Length (m)	50	R 1 975.51	0	30-06-2010
Pipes	AC		350mm	Length (m)			Length (m)	50	R 2 353.00	0	30-06-2010
Pipes	AC		350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		355mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		3600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		375mm	Length (m)			Length (m)	50	R 1 125.00	0	30-06-2010
Pipes	AC		375mm	Length (m)			Length (m)	50	R 1 189.00	0	30-06-2010
Pipes	AC		375mm	Length (m)			Length (m)	50	R 2 113.32	0	30-06-2010
Pipes	AC		375mm	Length (m)			Length (m)	50	R 2 994.00	0	30-06-2010
Pipes	AC		375mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		400mm	Length (m)			Length (m)	50	R 1 380.00	0	30-06-2010
Pipes	AC		400mm	Length (m)			Length (m)	50	R 1 459.00	0	30-06-2010
Pipes	AC		400mm	Length (m)			Length (m)	50	R 2 231.74	0	30-06-2010
Pipes	AC		400mm	Length (m)			Length (m)	50	R 2 994.00	0	30-06-2010
Pipes	AC		400mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		40mm	Length (m)			Length (m)	50	R 342.00	0	30-06-2010
Pipes	AC		40mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	AC		450mm	Length (m)			Length (m)	50	R 1 459.00	0	30-06-2010
Pipes	AC		450mm	Length (m)			Length (m)	50	R 1 523.00	0	30-06-2010
Pipes	AC		450mm	Length (m)			Length (m)	50	R 3 552.00	0	30-06-2010
Pipes	AC		450mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		500mm	Length (m)			Length (m)	50	R 1 665.00	0	30-06-2010
Pipes	AC		50mm	Length (m)			Length (m)	50	R 210.00	0	30-06-2010
Pipes	AC		50mm	Length (m)			Length (m)	50	R 363.00	0	30-06-2010
Pipes	AC		50mm	Length (m)			Length (m)	50	R 410.00	0	30-06-2010
Pipes	AC		50mm	Length (m)			Length (m)	50	R 454.35	0	30-06-2010
Pipes	AC		525mm	Length (m)			Length (m)	50	R 1 772.00	0	30-06-2010
Pipes	AC		525mm	Length (m)			Length (m)	50	R 2 832.31	0	30-06-2010
Pipes	AC		550mm	Length (m)			Length (m)	50	R 1 665.00	0	30-06-2010
Pipes	AC		550mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		575mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		600mm	Length (m)			Length (m)	50	R 1 950.00	0	30-06-2010
Pipes	AC		600mm	Length (m)			Length (m)	50	R 2 112.00	0	30-06-2010
Pipes	AC		625mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		63mm	Length (m)			Length (m)	50	R 326.70	0	30-06-2010
Pipes	AC		63mm	Length (m)			Length (m)	50	R 616.71	0	30-06-2010
Pipes	AC		63mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		650mm	Length (m)			Length (m)	50	R 2 093.00	0	30-06-2010
Pipes	AC		650mm	Length (m)			Length (m)	50	R 5 321.00	0	30-06-2010
Pipes	AC		675mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		700mm	Length (m)			Length (m)	50	R 2 605.00	0	30-06-2010
Pipes	AC		700mm	Length (m)			Length (m)	50	R 3 014.64	0	30-06-2010
Pipes	AC		750mm	Length (m)			Length (m)	50	R 2 605.00	0	30-06-2010
Pipes	AC		750mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		75mm	Length (m)			Length (m)	50	R 245.00	0	30-06-2010
Pipes	AC		75mm	Length (m)			Length (m)	50	R 273.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	AC		75mm	Length (m)			Length (m)	50	R 330.00	0	30-06-2010
Pipes	AC		75mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010
Pipes	AC		800mm	Length (m)			Length (m)	50	R 3 726.00	0	30-06-2010
Pipes	AC		800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		80mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		825mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC		850mm	Length (m)			Length (m)	50	R 3 000.00	0	30-06-2010
Pipes	AC		850mm	Length (m)			Length (m)	50	R 7 070.00	0	30-06-2010
Pipes	AC		900mm	Length (m)			Length (m)	50	R 3 400.00	0	30-06-2010
Pipes	AC		900mm	Length (m)			Length (m)	50	R 3 726.00	0	30-06-2010
Pipes	AC		90mm	Length (m)			Length (m)	50	R 399.30	0	30-06-2010
Pipes	AC		90mm	Length (m)			Length (m)	50	R 701.10	0	30-06-2010
Pipes	AC		90mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		1000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		100mm	Length (m)			Length (m)	50	R 485.21	0	30-06-2010
Pipes	AC-COD		100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		1050mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		1100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		110mm	Length (m)			Length (m)	50	R 485.21	0	30-06-2010
Pipes	AC-COD		110mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		1200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		1250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		125mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		1350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		140mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		1500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		150mm	Length (m)			Length (m)	50	R 399.30	0	30-06-2010
Pipes	AC-COD		150mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		15mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	AC-COD		160mm	Length (m)			Length (m)	50	R 670.34	0	30-06-2010
Pipes	AC-COD		160mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		1650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		175mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		1800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		180mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		2000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		200mm	Length (m)			Length (m)	50	R 871.20	0	30-06-2010
Pipes	AC-COD		200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		2025mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		20mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		2250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		225mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		250mm	Length (m)			Length (m)	50	R 399.30	0	30-06-2010
Pipes	AC-COD		250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		25mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		2700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		275mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		3000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		300mm	Length (m)			Length (m)	50	R 399.30	0	30-06-2010
Pipes	AC-COD		300mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		315mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		325mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		32mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		350mm	Length (m)			Length (m)	50	R 871.20	0	30-06-2010
Pipes	AC-COD		350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		355mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		3600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		375mm	Length (m)			Length (m)	50	R 950.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	AC-COD		375mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		400mm	Length (m)			Length (m)	50	R 950.00	0	30-06-2010
Pipes	AC-COD		400mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		40mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		450mm	Length (m)			Length (m)	50	R 1 000.00	0	30-06-2010
Pipes	AC-COD		450mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		50mm	Length (m)			Length (m)	50	R 363.00	0	30-06-2010
Pipes	AC-COD		50mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		525mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		550mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		575mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		600mm	Length (m)			Length (m)	50	R 1 450.00	0	30-06-2010
Pipes	AC-COD		625mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		63mm	Length (m)			Length (m)	50	R 326.70	0	30-06-2010
Pipes	AC-COD		63mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		675mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		750mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		75mm	Length (m)			Length (m)	50	R 399.30	0	30-06-2010
Pipes	AC-COD		75mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		80mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		825mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		850mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		900mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	AC-COD		90mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		1000mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Cast Iron		100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		1050mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		1100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		110mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		1200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		1250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		125mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		1350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		140mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		1500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		150mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		15mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		160mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		1650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		175mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		1800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		180mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		2000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		2025mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		20mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		2250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		225mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		25mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		2700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		275mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		3000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		300mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Cast Iron		315mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		325mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		32mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		355mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		3600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		375mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		400mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		40mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		450mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		50mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		525mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		550mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		575mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		625mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		63mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		675mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		750mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		75mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		80mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		825mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		850mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		900mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Cast Iron		90mm	Length (m)			Length (m)	50		0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	CI		100mm	Length (m)			Length (m)	100	R 356.00	0	30-06-2010
Pipes	CI		150mm	Length (m)			Length (m)	100	R 459.00	0	30-06-2010
Pipes	CI		225mm	Length (m)			Length (m)	100	R 746.00	0	30-06-2010
Pipes	CI		250mm	Length (m)			Length (m)	100	R 746.00	0	30-06-2010
Pipes	CI		300mm	Length (m)			Length (m)	100	R 907.00	0	30-06-2010
Pipes	CI		350mm	Length (m)			Length (m)	100	R 1 320.00	0	30-06-2010
Pipes	CI		400mm	Length (m)			Length (m)	100	R 1 832.00	0	30-06-2010
Pipes	CI		450mm	Length (m)			Length (m)	100	R 1 942.00	0	30-06-2010
Pipes	CI		600mm	Length (m)			Length (m)	100	R 2 850.00	0	30-06-2010
Pipes	CI		650mm	Length (m)			Length (m)	100	R 3 250.00	0	30-06-2010
Pipes	CI		700mm	Length (m)			Length (m)	100	R 3 920.00	0	30-06-2010
Pipes	Clay		1000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		1050mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		110mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		1200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		140mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		1500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		150mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		160mm	Length (m)			Length (m)	60	R 921.00	0	30-06-2010
Pipes	Clay		160mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		1800mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Clay		180mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		2025mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		2250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		225mm	Length (m)			Length (m)	60	R 1 353.00	0	30-06-2010
Pipes	Clay		225mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		25mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		2700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		3000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		300mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		355mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		3600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		450mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		50mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		550mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		575mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Clay		600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		625mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		80mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		850mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		900mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Clay		90mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Concrete		1000mm	Length (m)			Length (m)	50	R 6 067.51	0	30-06-2010
Pipes	Concrete		1000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		100mm	Length (m)			Length (m)	50	R 760.61	0	30-06-2010
Pipes	Concrete		100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		1050mm	Length (m)			Length (m)	50	R 6 532.02	0	30-06-2010
Pipes	Concrete		1050mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		1100mm	Length (m)			Length (m)	50	R 6 996.87	0	30-06-2010
Pipes	Concrete		1100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		110mm	Length (m)			Length (m)	50	R 880.71	0	30-06-2010
Pipes	Concrete		110mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		1200mm	Length (m)			Length (m)	50	R 7 954.48	0	30-06-2010
Pipes	Concrete		1200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		1250mm	Length (m)			Length (m)	50	R 8 542.87	0	30-06-2010
Pipes	Concrete		1250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		125mm	Length (m)			Length (m)	50	R 1 000.80	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Concrete		125mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		1350mm	Length (m)			Length (m)	50	R 9 719.65	0	30-06-2010
Pipes	Concrete		1350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		140mm	Length (m)			Length (m)	50	R 1 120.90	0	30-06-2010
Pipes	Concrete		140mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		1500mm	Length (m)			Length (m)	50	R 11 487.87	0	30-06-2010
Pipes	Concrete		1500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		150mm	Length (m)			Length (m)	50	R 1 200.96	0	30-06-2010
Pipes	Concrete		150mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		15mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		160mm	Length (m)			Length (m)	50	R 1 200.96	0	30-06-2010
Pipes	Concrete		160mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		1650mm	Length (m)			Length (m)	50	R 13 259.15	0	30-06-2010
Pipes	Concrete		1650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		175mm	Length (m)			Length (m)	50	R 1 200.96	0	30-06-2010
Pipes	Concrete		175mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		1800mm	Length (m)			Length (m)	50	R 15 033.49	0	30-06-2010
Pipes	Concrete		1800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		180mm	Length (m)			Length (m)	50	R 1 200.96	0	30-06-2010
Pipes	Concrete		180mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		2000mm	Length (m)			Length (m)	50	R 16 725.16	0	30-06-2010
Pipes	Concrete		2000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		200mm	Length (m)			Length (m)	50	R 1 200.96	0	30-06-2010
Pipes	Concrete		200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		2025mm	Length (m)			Length (m)	50	R 16 936.62	0	30-06-2010
Pipes	Concrete		2025mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		20mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		2250mm	Length (m)			Length (m)	50	R 18 846.62	0	30-06-2010
Pipes	Concrete		2250mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Concrete		225mm	Length (m)			Length (m)	50	R 1 200.96	0	30-06-2010
Pipes	Concrete		225mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		250mm	Length (m)			Length (m)	50	R 1 200.96	0	30-06-2010
Pipes	Concrete		250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		25mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		2700mm	Length (m)			Length (m)	50	R 22 687.26	0	30-06-2010
Pipes	Concrete		2700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		275mm	Length (m)			Length (m)	50	R 1 200.96	0	30-06-2010
Pipes	Concrete		275mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		3000mm	Length (m)			Length (m)	50	R 25 275.18	0	30-06-2010
Pipes	Concrete		3000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		300mm	Length (m)			Length (m)	50	R 1 200.96	0	30-06-2010
Pipes	Concrete		300mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		315mm	Length (m)			Length (m)	50	R 1 274.66	0	30-06-2010
Pipes	Concrete		315mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		325mm	Length (m)			Length (m)	50	R 1 312.78	0	30-06-2010
Pipes	Concrete		325mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		32mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		350mm	Length (m)			Length (m)	50	R 1 408.09	0	30-06-2010
Pipes	Concrete		350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		355mm	Length (m)			Length (m)	50	R 1 427.15	0	30-06-2010
Pipes	Concrete		355mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		3600mm	Length (m)			Length (m)	50	R 30 451.04	0	30-06-2010
Pipes	Concrete		3600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		375mm	Length (m)			Length (m)	50	R 1 607.86	0	30-06-2010
Pipes	Concrete		375mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		400mm	Length (m)			Length (m)	50	R 1 833.81	0	30-06-2010
Pipes	Concrete		400mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		40mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Concrete		450mm	Length (m)			Length (m)	50	R 2 218.35	0	30-06-2010
Pipes	Concrete		450mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		500mm	Length (m)			Length (m)	50	R 2 457.18	0	30-06-2010
Pipes	Concrete		500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		50mm	Length (m)			Length (m)	50	R 363.00	0	30-06-2010
Pipes	Concrete		50mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		525mm	Length (m)			Length (m)	50	R 2 634.36	0	30-06-2010
Pipes	Concrete		525mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		550mm	Length (m)			Length (m)	50	R 2 900.38	0	30-06-2010
Pipes	Concrete		550mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		575mm	Length (m)			Length (m)	50	R 3 166.40	0	30-06-2010
Pipes	Concrete		575mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		600mm	Length (m)			Length (m)	50	R 3 270.51	0	30-06-2010
Pipes	Concrete		600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		625mm	Length (m)			Length (m)	50	R 3 374.62	0	30-06-2010
Pipes	Concrete		625mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		63mm	Length (m)			Length (m)	50	R 326.70	0	30-06-2010
Pipes	Concrete		63mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		650mm	Length (m)			Length (m)	50	R 3 478.73	0	30-06-2010
Pipes	Concrete		650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		675mm	Length (m)			Length (m)	50	R 3 634.90	0	30-06-2010
Pipes	Concrete		675mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		700mm	Length (m)			Length (m)	50	R 3 791.23	0	30-06-2010
Pipes	Concrete		700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		750mm	Length (m)			Length (m)	50	R 4 119.41	0	30-06-2010
Pipes	Concrete		750mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		75mm	Length (m)			Length (m)	50	R 399.30	0	30-06-2010
Pipes	Concrete		75mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		800mm	Length (m)			Length (m)	50	R 4 448.34	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Concrete		800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		80mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		825mm	Length (m)			Length (m)	50	R 4 615.27	0	30-06-2010
Pipes	Concrete		825mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		850mm	Length (m)			Length (m)	50	R 4 865.90	0	30-06-2010
Pipes	Concrete		850mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		900mm	Length (m)			Length (m)	50	R 5 116.54	0	30-06-2010
Pipes	Concrete		900mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Concrete		90mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	Copper		1000mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		100mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		1050mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		1100mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		110mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		1200mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		1250mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		125mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		1350mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		140mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		1500mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		150mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		15mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		160mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		1650mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		175mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		1800mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		180mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		2000mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		200mm	Length (m)			Length (m)	100		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Copper		2025mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		20mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		2250mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		225mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		250mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		25mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		2700mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		275mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		3000mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		300mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		315mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		325mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		32mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		350mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		355mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		3600mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		375mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		400mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		40mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		450mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		500mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		50mm	Length (m)			Length (m)	100	R 410.00	0	30-06-2010
Pipes	Copper		50mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		525mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		550mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		575mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		600mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		625mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		63mm	Length (m)			Length (m)	100		0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Copper		650mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		675mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		700mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		750mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		75mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		800mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		80mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		825mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		850mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		900mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Copper		90mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	DI		1000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		1050mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		110mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		1200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		140mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		1500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		150mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		160mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		1800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		180mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	DI		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		2025mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		2250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		225mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		250mm	Length (m)			Length (m)	60	R 1 445.00	0	30-06-2010
Pipes	DI		250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		25mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		2700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		3000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		300mm	Length (m)			Length (m)	60	R 1 909.00	0	30-06-2010
Pipes	DI		300mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		355mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		3600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		400mm	Length (m)			Length (m)	60	R 2 994.00	0	30-06-2010
Pipes	DI		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		450mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		50mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		550mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	DI		575mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		625mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		80mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		850mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		900mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	DI		90mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		1000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		100mm	Length (m)			Length (m)	60	R 688.00	0	30-06-2010
Pipes	FC		100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		1050mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		110mm	Length (m)			Length (m)	60	R 688.00	0	30-06-2010
Pipes	FC		110mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		1200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		125mm	Length (m)			Length (m)	60	R 810.00	0	30-06-2010
Pipes	FC		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		140mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		1500mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	FC		150mm	Length (m)			Length (m)	60	R 931.00	0	30-06-2010
Pipes	FC		150mm	Length (m)			Length (m)	60	R 986.75	0	30-06-2010
Pipes	FC		150mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		160mm	Length (m)			Length (m)	60	R 931.00	0	30-06-2010
Pipes	FC		160mm	Length (m)			Length (m)	60	R 986.75	0	30-06-2010
Pipes	FC		160mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		1800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		180mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		200mm	Length (m)			Length (m)	60	R 597.00	0	30-06-2010
Pipes	FC		200mm	Length (m)			Length (m)	60	R 1 208.00	0	30-06-2010
Pipes	FC		200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		2025mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		20mm	Length (m)			Length (m)	60	R 284.00	0	30-06-2010
Pipes	FC		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		2250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		225mm	Length (m)			Length (m)	60	R 1 445.00	0	30-06-2010
Pipes	FC		225mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		250mm	Length (m)			Length (m)	60	R 746.00	0	30-06-2010
Pipes	FC		250mm	Length (m)			Length (m)	60	R 1 445.00	0	30-06-2010
Pipes	FC		250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		25mm	Length (m)			Length (m)	60	R 284.00	0	30-06-2010
Pipes	FC		25mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		2700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		3000mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	FC		300mm	Length (m)			Length (m)	60	R 907.00	0	30-06-2010
Pipes	FC		300mm	Length (m)			Length (m)	60	R 1 909.00	0	30-06-2010
Pipes	FC		300mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		315mm	Length (m)			Length (m)	60	R 1 955.00	0	30-06-2010
Pipes	FC		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		32mm	Length (m)			Length (m)	60	R 284.00	0	30-06-2010
Pipes	FC		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		350mm	Length (m)			Length (m)	60	R 1 080.00	0	30-06-2010
Pipes	FC		350mm	Length (m)			Length (m)	60	R 2 353.00	0	30-06-2010
Pipes	FC		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		355mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		3600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		375mm	Length (m)			Length (m)	60	R 2 353.00	0	30-06-2010
Pipes	FC		375mm	Length (m)			Length (m)	60	R 2 994.00	0	30-06-2010
Pipes	FC		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		400mm	Length (m)			Length (m)	60	R 2 994.00	0	30-06-2010
Pipes	FC		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		40mm	Length (m)			Length (m)	60	R 334.00	0	30-06-2010
Pipes	FC		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		450mm	Length (m)			Length (m)	60	R 3 552.00	0	30-06-2010
Pipes	FC		450mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		500mm	Length (m)			Length (m)	60	R 4 052.00	0	30-06-2010
Pipes	FC		500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		50mm	Length (m)			Length (m)	60	R 410.00	0	30-06-2010
Pipes	FC		50mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		550mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		575mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	FC		600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		625mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		63mm	Length (m)			Length (m)	60	R 664.00	0	30-06-2010
Pipes	FC		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		700mm	Length (m)			Length (m)	60	R 4 552.00	0	30-06-2010
Pipes	FC		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		75mm	Length (m)			Length (m)	60	R 664.00	0	30-06-2010
Pipes	FC		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		800mm	Length (m)			Length (m)	60	R 5 052.00	0	30-06-2010
Pipes	FC		800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		80mm	Length (m)			Length (m)	60	R 664.00	0	30-06-2010
Pipes	FC		80mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		850mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		900mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	FC		90mm	Length (m)			Length (m)	60	R 638.00	0	30-06-2010
Pipes	FC		90mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	GRP		1000mm	Length (m)			Length (m)	50	R 3 807.57	0	30-06-2010
Pipes	GRP		1000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		1050mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		1100mm	Length (m)			Length (m)	50	R 4 060.18	0	30-06-2010
Pipes	GRP		1100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		110mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		1200mm	Length (m)			Length (m)	50	R 4 405.76	0	30-06-2010
Pipes	GRP		1200mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	GRP		1250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		125mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		1350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		140mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		1500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		150mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		15mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		160mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		1650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		175mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		1800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		180mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		2000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		200mm	Length (m)			Length (m)	50	R 657.00	0	30-06-2010
Pipes	GRP		200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		2025mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		20mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		2250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		225mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		25mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		2700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		275mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		3000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		300mm	Length (m)			Length (m)	50	R 1 909.00	0	30-06-2010
Pipes	GRP		300mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		315mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		325mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		32mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	GRP		350mm	Length (m)			Length (m)	50	R 1 574.21	0	30-06-2010
Pipes	GRP		350mm	Length (m)			Length (m)	50	R 2 353.00	0	30-06-2010
Pipes	GRP		350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		355mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		3600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		375mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		400mm	Length (m)			Length (m)	50	R 1 832.00	0	30-06-2010
Pipes	GRP		400mm	Length (m)			Length (m)	50	R 8 000.00	0	30-06-2010
Pipes	GRP		400mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		40mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		450mm	Length (m)			Length (m)	50	R 2 689.72	0	30-06-2010
Pipes	GRP		450mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		500mm	Length (m)			Length (m)	50	R 3 042.70	0	30-06-2010
Pipes	GRP		500mm	Length (m)			Length (m)	50	R 8 400.00	0	30-06-2010
Pipes	GRP		50mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		525mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		550mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		575mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		600mm	Length (m)			Length (m)	50	R 2 856.22	0	30-06-2010
Pipes	GRP		600mm	Length (m)			Length (m)	50	R 8 800.00	0	30-06-2010
Pipes	GRP		625mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		63mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		675mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		700mm	Length (m)			Length (m)	50	R 3 014.64	0	30-06-2010
Pipes	GRP		700mm	Length (m)			Length (m)	50	R 9 200.00	0	30-06-2010
Pipes	GRP		750mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		75mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		800mm	Length (m)			Length (m)	50	R 3 232.15	0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	GRP		800mm	Length (m)			Length (m)	50	R 9 600.00	0	30-06-2010
Pipes	GRP		80mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		825mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		850mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	GRP		900mm	Length (m)			Length (m)	50	R 3 537.07	0	30-06-2010
Pipes	GRP		900mm	Length (m)			Length (m)	50	R 10 000.00	0	30-06-2010
Pipes	GRP		90mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		1000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		1050mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		1100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		110mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		1200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		1250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		125mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		1350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		140mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		1500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		150mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		15mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		160mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		1650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		175mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		1800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		180mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		2000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		200mm	Length (m)			Length (m)	50	R 800.00	0	30-06-2010
Pipes	G-Steel		200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		2025mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	G-Steel		20mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		2250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		225mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		25mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		2700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		275mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		3000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		300mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		315mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		325mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		32mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		355mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		3600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		375mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		400mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		40mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		450mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		50mm	Length (m)			Length (m)	50	R 440.00	0	30-06-2010
Pipes	G-Steel		50mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		525mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		550mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		575mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		625mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		63mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		650mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	G-Steel		675mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		750mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		75mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		80mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		825mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		850mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		900mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	G-Steel		90mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	HDPE		1000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		100mm	Length (m)			Length (m)	60	R 485.21	0	30-06-2010
Pipes	HDPE		100mm	Length (m)			Length (m)	60	R 688.00	0	30-06-2010
Pipes	HDPE		100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		1050mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		110mm	Length (m)			Length (m)	60	R 520.30	0	30-06-2010
Pipes	HDPE		110mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		1200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		125mm	Length (m)			Length (m)	60	R 810.00	0	30-06-2010
Pipes	HDPE		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		140mm	Length (m)			Length (m)	60	R 882.00	0	30-06-2010
Pipes	HDPE		140mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		1500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		150mm	Length (m)			Length (m)	60	R 670.34	0	30-06-2010
Pipes	HDPE		150mm	Length (m)			Length (m)	60	R 931.00	0	30-06-2010
Pipes	HDPE		150mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	HDPE		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		160mm	Length (m)			Length (m)	60	R 709.06	0	30-06-2010
Pipes	HDPE		160mm	Length (m)			Length (m)	60	R 921.00	0	30-06-2010
Pipes	HDPE		160mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		1800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		180mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		200mm	Length (m)			Length (m)	60	R 1 208.00	0	30-06-2010
Pipes	HDPE		200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		2025mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		20mm	Length (m)			Length (m)	60	R 222.64	0	30-06-2010
Pipes	HDPE		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		2250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		225mm	Length (m)			Length (m)	60	R 473.00	0	30-06-2010
Pipes	HDPE		225mm	Length (m)			Length (m)	60	R 1 208.00	0	30-06-2010
Pipes	HDPE		225mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		250mm	Length (m)			Length (m)	60	R 568.00	0	30-06-2010
Pipes	HDPE		250mm	Length (m)			Length (m)	60	R 1 092.63	0	30-06-2010
Pipes	HDPE		250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		25mm	Length (m)			Length (m)	60	R 238.37	0	30-06-2010
Pipes	HDPE		25mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		2700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		3000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		300mm	Length (m)			Length (m)	60	R 631.00	0	30-06-2010
Pipes	HDPE		300mm	Length (m)			Length (m)	60	R 1 323.74	0	30-06-2010
Pipes	HDPE		300mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	HDPE		315mm	Length (m)			Length (m)	60	R 1 323.74	0	30-06-2010
Pipes	HDPE		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		32mm	Length (m)			Length (m)	60	R 260.15	0	30-06-2010
Pipes	HDPE		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		350mm	Length (m)			Length (m)	60	R 1 574.21	0	30-06-2010
Pipes	HDPE		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		355mm	Length (m)			Length (m)	60	R 1 574.21	0	30-06-2010
Pipes	HDPE		355mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		3600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		375mm	Length (m)			Length (m)	60	R 1 574.21	0	30-06-2010
Pipes	HDPE		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		38mm	Length (m)			Length (m)	60	R 260.15	0	30-06-2010
Pipes	HDPE		400mm	Length (m)			Length (m)	60	R 739.00	0	30-06-2010
Pipes	HDPE		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		40mm	Length (m)			Length (m)	60	R 284.35	0	30-06-2010
Pipes	HDPE		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		450mm	Length (m)			Length (m)	60	R 795.00	0	30-06-2010
Pipes	HDPE		450mm	Length (m)			Length (m)	60	R 1 774.21	0	30-06-2010
Pipes	HDPE		450mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		500mm	Length (m)			Length (m)	60	R 2 174.21	0	30-06-2010
Pipes	HDPE		500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		50mm	Length (m)			Length (m)	60	R 315.81	0	30-06-2010
Pipes	HDPE		50mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		550mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		575mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		600mm	Length (m)			Length (m)	60	R 916.00	0	30-06-2010
Pipes	HDPE		600mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	HDPE		625mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		63mm	Length (m)			Length (m)	60	R 358.16	0	30-06-2010
Pipes	HDPE		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		700mm	Length (m)			Length (m)	60	R 2 574.21	0	30-06-2010
Pipes	HDPE		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		75mm	Length (m)			Length (m)	60	R 399.30	0	30-06-2010
Pipes	HDPE		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		80mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		850mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		900mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	HDPE		90mm	Length (m)			Length (m)	60	R 450.12	0	30-06-2010
Pipes	HDPE		90mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	mPVC		1000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		1050mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		1100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		110mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010
Pipes	mPVC		110mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		1200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		1250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		125mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010
Pipes	mPVC		125mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		1350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		140mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	mPVC		140mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		1500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		150mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		15mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		160mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010
Pipes	mPVC		160mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		1650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		175mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		1800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		180mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		2000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		200mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010
Pipes	mPVC		200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		2025mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		20mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		2250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		225mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		250mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010
Pipes	mPVC		250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		25mm	Length (m)			Length (m)	50	R 238.37	0	30-06-2010
Pipes	mPVC		25mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		2700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		275mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		3000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		300mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		315mm	Length (m)			Length (m)	50	R 726.00	0	30-06-2010
Pipes	mPVC		315mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		325mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		32mm	Length (m)			Length (m)	50	R 260.15	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	mPVC		32mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		355mm	Length (m)			Length (m)	50	R 780.00	0	30-06-2010
Pipes	mPVC		355mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		3600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		375mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		400mm	Length (m)			Length (m)	50	R 820.00	0	30-06-2010
Pipes	mPVC		400mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		40mm	Length (m)			Length (m)	50	R 284.35	0	30-06-2010
Pipes	mPVC		40mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		450mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		50mm	Length (m)			Length (m)	50	R 315.81	0	30-06-2010
Pipes	mPVC		50mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		525mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		550mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		575mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		625mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		63mm	Length (m)			Length (m)	50	R 358.16	0	30-06-2010
Pipes	mPVC		63mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		675mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		750mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		75mm	Length (m)			Length (m)	50	R 399.30	0	30-06-2010
Pipes	mPVC		75mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		80mm	Length (m)			Length (m)	50		0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	mPVC		825mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		850mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		900mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	mPVC		90mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010
Pipes	mPVC		90mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PF		1000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		100mm	Length (m)			Length (m)	60	R 356.00	0	30-06-2010
Pipes	PF		1050mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		110mm	Length (m)			Length (m)	60	R 356.00	0	30-06-2010
Pipes	PF		1200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		140mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		1500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		150mm	Length (m)			Length (m)	60	R 459.00	0	30-06-2010
Pipes	PF		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		160mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		1800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		180mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		200mm	Length (m)			Length (m)	60	R 597.00	0	30-06-2010
Pipes	PF		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		225mm	Length (m)			Length (m)	60	R 746.00	0	30-06-2010
Pipes	PF		250mm	Length (m)			Length (m)	60	R 746.00	0	30-06-2010
Pipes	PF		25mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	PF		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		300mm	Length (m)			Length (m)	60	R 907.00	0	30-06-2010
Pipes	PF		300mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		355mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		400mm	Length (m)			Length (m)	60	R 1 832.00	0	30-06-2010
Pipes	PF		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		450mm	Length (m)			Length (m)	60	R 1 950.00	0	30-06-2010
Pipes	PF		450mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		500mm	Length (m)			Length (m)	60	R 2 220.00	0	30-06-2010
Pipes	PF		50mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		550mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		575mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		600mm	Length (m)			Length (m)	60	R 2 850.00	0	30-06-2010
Pipes	PF		625mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		800mm	Length (m)			Length (m)	60	R 4 590.00	0	30-06-2010
Pipes	PF		80mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	PF		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	PF		850mm	Length (m)			Length (m)	60	R 5 000.00	0	30-06-2010
Pipes	PF		900mm	Length (m)			Length (m)	60	R 5 620.00	0	30-06-2010
Pipes	PF		90mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	POLYCOP		1000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		1050mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		1100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		110mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		1200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		1250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		125mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		1350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		140mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		1500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		150mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		15mm	Length (m)			Length (m)	50	R 100.00	0	30-06-2010
Pipes	POLYCOP		15mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		160mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		1650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		175mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		1800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		180mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		2000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		2025mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		20mm	Length (m)			Length (m)	50	R 120.00	0	30-06-2010
Pipes	POLYCOP		20mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		2250mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	POLYCOP		225mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		25mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		2700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		275mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		3000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		300mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		315mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		325mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		32mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		355mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		3600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		375mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		400mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		40mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		450mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		50mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		525mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		550mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		575mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		625mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		63mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		675mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		750mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	POLYCOP		75mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		80mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		825mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		850mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		900mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	POLYCOP		90mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		1000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		100mm	Length (m)			Length (m)	50	R 280.00	0	30-06-2010
Pipes	PVC		100mm	Length (m)			Length (m)	50	R 688.00	0	30-06-2010
Pipes	PVC		100mm	Length (m)			Length (m)	50	R 753.35	0	30-06-2010
Pipes	PVC		1050mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		1100mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		110mm	Length (m)			Length (m)	50	R 290.00	0	30-06-2010
Pipes	PVC		110mm	Length (m)			Length (m)	50	R 356.00	0	30-06-2010
Pipes	PVC		110mm	Length (m)			Length (m)	50	R 530.00	0	30-06-2010
Pipes	PVC		1200mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		1250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		125mm	Length (m)			Length (m)	50	R 356.00	0	30-06-2010
Pipes	PVC		125mm	Length (m)			Length (m)	50	R 810.00	0	30-06-2010
Pipes	PVC		125mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		1350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		140mm	Length (m)			Length (m)	50	R 916.05	0	30-06-2010
Pipes	PVC		140mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		1500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		150mm	Length (m)			Length (m)	50	R 310.00	0	30-06-2010
Pipes	PVC		150mm	Length (m)			Length (m)	50	R 931.00	0	30-06-2010
Pipes	PVC		150mm	Length (m)			Length (m)	50	R 986.75	0	30-06-2010
Pipes	PVC		15mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	PVC		160mm	Length (m)			Length (m)	50	R 485.00	0	30-06-2010
Pipes	PVC		160mm	Length (m)			Length (m)	50	R 590.00	0	30-06-2010
Pipes	PVC		160mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		1650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		175mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		1800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		180mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010
Pipes	PVC		180mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		2000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		200mm	Length (m)			Length (m)	50	R 340.00	0	30-06-2010
Pipes	PVC		200mm	Length (m)			Length (m)	50	R 597.00	0	30-06-2010
Pipes	PVC		200mm	Length (m)			Length (m)	50	R 1 208.00	0	30-06-2010
Pipes	PVC		2025mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		20mm	Length (m)			Length (m)	50	R 188.00	0	30-06-2010
Pipes	PVC		20mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		2250mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		225mm	Length (m)			Length (m)	50	R 473.00	0	30-06-2010
Pipes	PVC		225mm	Length (m)			Length (m)	50	R 1 353.00	0	30-06-2010
Pipes	PVC		225mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		250mm	Length (m)			Length (m)	50	R 345.00	0	30-06-2010
Pipes	PVC		250mm	Length (m)			Length (m)	50	R 597.00	0	30-06-2010
Pipes	PVC		250mm	Length (m)			Length (m)	50	R 746.00	0	30-06-2010
Pipes	PVC		250mm	Length (m)			Length (m)	50	R 1 320.00	0	30-06-2010
Pipes	PVC		250mm	Length (m)			Length (m)	50	R 1 445.00	0	30-06-2010
Pipes	PVC		25mm	Length (m)			Length (m)	50	R 185.00	0	30-06-2010
Pipes	PVC		25mm	Length (m)			Length (m)	50	R 400.00	0	30-06-2010
Pipes	PVC		25mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		2700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		275mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	PVC		3000mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		300mm	Length (m)			Length (m)	50	R 631.00	0	30-06-2010
Pipes	PVC		300mm	Length (m)			Length (m)	50	R 726.00	0	30-06-2010
Pipes	PVC		300mm	Length (m)			Length (m)	50	R 1 909.00	0	30-06-2010
Pipes	PVC		300mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		315mm	Length (m)			Length (m)	50	R 958.00	0	30-06-2010
Pipes	PVC		315mm	Length (m)			Length (m)	50	R 1 000.00	0	30-06-2010
Pipes	PVC		315mm	Length (m)			Length (m)	50	R 1 955.00	0	30-06-2010
Pipes	PVC		315mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		325mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		32mm	Length (m)			Length (m)	50	R 284.00	0	30-06-2010
Pipes	PVC		32mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		350mm	Length (m)			Length (m)	50	R 1 080.00	0	30-06-2010
Pipes	PVC		350mm	Length (m)			Length (m)	50	R 2 353.00	0	30-06-2010
Pipes	PVC		350mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		355mm	Length (m)			Length (m)	50	R 907.00	0	30-06-2010
Pipes	PVC		355mm	Length (m)			Length (m)	50	R 2 277.00	0	30-06-2010
Pipes	PVC		355mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		3600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		375mm	Length (m)			Length (m)	50	R 1 170.00	0	30-06-2010
Pipes	PVC		375mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		400mm	Length (m)			Length (m)	50	R 1 263.00	0	30-06-2010
Pipes	PVC		400mm	Length (m)			Length (m)	50	R 1 950.00	0	30-06-2010
Pipes	PVC		400mm	Length (m)			Length (m)	50	R 2 994.00	0	30-06-2010
Pipes	PVC		40mm	Length (m)			Length (m)	50	R 342.00	0	30-06-2010
Pipes	PVC		40mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		450mm	Length (m)			Length (m)	50	R 795.00	0	30-06-2010
Pipes	PVC		450mm	Length (m)			Length (m)	50	R 3 552.00	0	30-06-2010
Pipes	PVC		450mm	Length (m)			Length (m)	50		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	PVC		500mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		50mm	Length (m)			Length (m)	50	R 210.00	0	30-06-2010
Pipes	PVC		50mm	Length (m)			Length (m)	50	R 450.12	0	30-06-2010
Pipes	PVC		50mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		525mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		550mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		575mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		600mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		625mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		63mm	Length (m)			Length (m)	50	R 480.00	0	30-06-2010
Pipes	PVC		63mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		650mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		675mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		700mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		750mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		75mm	Length (m)			Length (m)	50	R 500.00	0	30-06-2010
Pipes	PVC		800mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		80mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		825mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		850mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		900mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	PVC		90mm	Length (m)			Length (m)	50	R 550.00	0	30-06-2010
Pipes	PVC		90mm	Length (m)			Length (m)	50		0	30-06-2010
Pipes	RC		1000mm	Length (m)			Length (m)	60	R 8 891.00	0	30-06-2010
Pipes	RC		100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		1050mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		110mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		1200mm	Length (m)			Length (m)	60	R 11 064.00	0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	RC		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		140mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		1500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		150mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		160mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		1800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		180mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		2025mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		2250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		225mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		25mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		2700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		3000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		300mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		355mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	RC		3600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		450mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		50mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		550mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		575mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		625mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		80mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		850mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		900mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	RC		90mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		1000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		100mm	Length (m)			Length (m)	60	R 356.00	0	30-06-2010
Pipes	SG		1050mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		110mm	Length (m)			Length (m)	60	R 356.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	SG		1200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		140mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		1500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		150mm	Length (m)			Length (m)	60	R 459.00	0	30-06-2010
Pipes	SG		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		160mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		1800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		180mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		200mm	Length (m)			Length (m)	60	R 597.00	0	30-06-2010
Pipes	SG		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		225mm	Length (m)			Length (m)	60	R 746.00	0	30-06-2010
Pipes	SG		250mm	Length (m)			Length (m)	60	R 746.00	0	30-06-2010
Pipes	SG		25mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		300mm	Length (m)			Length (m)	60	R 907.00	0	30-06-2010
Pipes	SG		300mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		350mm	Length (m)			Length (m)	60	R 1 400.00	0	30-06-2010
Pipes	SG		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		355mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		375mm	Length (m)			Length (m)	60	R 1 832.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	SG		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		400mm	Length (m)			Length (m)	60	R 1 832.00	0	30-06-2010
Pipes	SG		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		450mm	Length (m)			Length (m)	60	R 1 950.00	0	30-06-2010
Pipes	SG		450mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		500mm	Length (m)			Length (m)	60	R 2 220.00	0	30-06-2010
Pipes	SG		50mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		550mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		575mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		600mm	Length (m)			Length (m)	60	R 2 850.00	0	30-06-2010
Pipes	SG		625mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		650mm	Length (m)			Length (m)	60	R 3 250.00	0	30-06-2010
Pipes	SG		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		80mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		850mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		900mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	SG		90mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		1000mm	Length (m)			Length (m)	60	R 8 891.00	0	30-06-2010
Pipes	Steel		1000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		1050mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Steel		1100mm	Length (m)			Length (m)	60	R 9 808.00	0	30-06-2010
Pipes	Steel		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		110mm	Length (m)			Length (m)	60	R 550.00	0	30-06-2010
Pipes	Steel		110mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		1200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		140mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		1500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		150mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		160mm	Length (m)			Length (m)	60	R 921.00	0	30-06-2010
Pipes	Steel		160mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		1800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		180mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		2000mm	Length (m)			Length (m)	60	R 5 355.00	0	30-06-2010
Pipes	Steel		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		200mm	Length (m)			Length (m)	60	R 3 446.00	0	30-06-2010
Pipes	Steel		200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		2025mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		2250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		225mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		250mm	Length (m)			Length (m)	60	R 746.00	0	30-06-2010
Pipes	Steel		250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		25mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Steel		2700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		3000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		300mm	Length (m)			Length (m)	60	R 1 150.00	0	30-06-2010
Pipes	Steel		300mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		350mm	Length (m)			Length (m)	60	R 1 080.00	0	30-06-2010
Pipes	Steel		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		355mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		3600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		400mm	Length (m)			Length (m)	60	R 1 459.00	0	30-06-2010
Pipes	Steel		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		450mm	Length (m)			Length (m)	60	R 1 459.00	0	30-06-2010
Pipes	Steel		450mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		500mm	Length (m)			Length (m)	60	R 3 834.00	0	30-06-2010
Pipes	Steel		500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		50mm	Length (m)			Length (m)	60	R 460.50	0	30-06-2010
Pipes	Steel		50mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		525mm	Length (m)			Length (m)	60	R 4 123.00	0	30-06-2010
Pipes	Steel		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		550mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		575mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		600mm	Length (m)			Length (m)	60	R 2 112.00	0	30-06-2010
Pipes	Steel		600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		625mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Steel		63mm	Length (m)			Length (m)	60	R 489.32	0	30-06-2010
Pipes	Steel		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		700mm	Length (m)			Length (m)	60	R 9 200.00	0	30-06-2010
Pipes	Steel		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		800mm	Length (m)			Length (m)	60	R 3 726.00	0	30-06-2010
Pipes	Steel		800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		80mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		850mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		900mm	Length (m)			Length (m)	60	R 3 726.00	0	30-06-2010
Pipes	Steel		900mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Steel		90mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	uPVC		1000mm	Length (m)			Length (m)	100	R 3 807.57	0	30-06-2010
Pipes	uPVC		1000mm	Length (m)			Length (m)	100	R 4 355.00	0	30-06-2010
Pipes	uPVC		100mm	Length (m)			Length (m)	100	R 372.00	0	30-06-2010
Pipes	uPVC		100mm	Length (m)			Length (m)	100	R 450.12	0	30-06-2010
Pipes	uPVC		100mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		1050mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		1100mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		110mm	Length (m)			Length (m)	100	R 356.00	0	30-06-2010
Pipes	uPVC		110mm	Length (m)			Length (m)	100	R 372.00	0	30-06-2010
Pipes	uPVC		110mm	Length (m)			Length (m)	100	R 394.00	0	30-06-2010
Pipes	uPVC		110mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		1200mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		1250mm	Length (m)			Length (m)	100		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	uPVC		125mm	Length (m)			Length (m)	100	R 810.00	0	30-06-2010
Pipes	uPVC		125mm	Length (m)			Length (m)	100	R 874.15	0	30-06-2010
Pipes	uPVC		125mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		1350mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		140mm	Length (m)			Length (m)	100	R 450.12	0	30-06-2010
Pipes	uPVC		140mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		1500mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		150mm	Length (m)			Length (m)	100	R 372.00	0	30-06-2010
Pipes	uPVC		150mm	Length (m)			Length (m)	100	R 450.12	0	30-06-2010
Pipes	uPVC		150mm	Length (m)			Length (m)	100	R 459.00	0	30-06-2010
Pipes	uPVC		150mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		15mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		160mm	Length (m)			Length (m)	100	R 386.00	0	30-06-2010
Pipes	uPVC		160mm	Length (m)			Length (m)	100	R 450.12	0	30-06-2010
Pipes	uPVC		160mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		1650mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		175mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		1800mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		180mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		2000mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		200mm	Length (m)			Length (m)	100	R 597.00	0	30-06-2010
Pipes	uPVC		200mm	Length (m)			Length (m)	100	R 600.00	0	30-06-2010
Pipes	uPVC		200mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		2025mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		20mm	Length (m)			Length (m)	100	R 390.00	0	30-06-2010
Pipes	uPVC		20mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		2250mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		225mm	Length (m)			Length (m)	100	R 670.00	0	30-06-2010
Pipes	uPVC		225mm	Length (m)			Length (m)	100	R 1 323.98	0	30-06-2010



vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	uPVC		225mm	Length (m)			Length (m)	100	R 1 353.00	0	30-06-2010
Pipes	uPVC		225mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		250mm	Length (m)			Length (m)	100	R 746.00	0	30-06-2010
Pipes	uPVC		250mm	Length (m)			Length (m)	100	R 1 320.00	0	30-06-2010
Pipes	uPVC		250mm	Length (m)			Length (m)	100	R 1 445.00	0	30-06-2010
Pipes	uPVC		250mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		25mm	Length (m)			Length (m)	100	R 425.00	0	30-06-2010
Pipes	uPVC		25mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		2700mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		275mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		3000mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		300mm	Length (m)			Length (m)	100	R 670.00	0	30-06-2010
Pipes	uPVC		300mm	Length (m)			Length (m)	100	R 907.00	0	30-06-2010
Pipes	uPVC		300mm	Length (m)			Length (m)	100	R 1 702.69	0	30-06-2010
Pipes	uPVC		300mm	Length (m)			Length (m)	100	R 1 909.00	0	30-06-2010
Pipes	uPVC		300mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		315mm	Length (m)			Length (m)	100	R 670.00	0	30-06-2010
Pipes	uPVC		315mm	Length (m)			Length (m)	100	R 958.00	0	30-06-2010
Pipes	uPVC		315mm	Length (m)			Length (m)	100	R 1 599.00	0	30-06-2010
Pipes	uPVC		315mm	Length (m)			Length (m)	100	R 1 955.00	0	30-06-2010
Pipes	uPVC		315mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		325mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		32mm	Length (m)			Length (m)	100	R 372.00	0	30-06-2010
Pipes	uPVC		32mm	Length (m)			Length (m)	100	R 450.12	0	30-06-2010
Pipes	uPVC		32mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		350mm	Length (m)			Length (m)	100	R 1 080.00	0	30-06-2010
Pipes	uPVC		350mm	Length (m)			Length (m)	100	R 1 975.51	0	30-06-2010
Pipes	uPVC		350mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		355mm	Length (m)			Length (m)	100	R 1 000.00	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	uPVC		355mm	Length (m)			Length (m)	100	R 1 975.51	0	30-06-2010
Pipes	uPVC		355mm	Length (m)			Length (m)	100	R 2 277.00	0	30-06-2010
Pipes	uPVC		355mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		3600mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		375mm	Length (m)			Length (m)	100	R 2 113.32	0	30-06-2010
Pipes	uPVC		375mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		400mm	Length (m)			Length (m)	100	R 1 000.00	0	30-06-2010
Pipes	uPVC		400mm	Length (m)			Length (m)	100	R 1 263.00	0	30-06-2010
Pipes	uPVC		400mm	Length (m)			Length (m)	100	R 2 231.74	0	30-06-2010
Pipes	uPVC		400mm	Length (m)			Length (m)	100	R 2 994.00	0	30-06-2010
Pipes	uPVC		400mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		40mm	Length (m)			Length (m)	100	R 342.00	0	30-06-2010
Pipes	uPVC		40mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		450mm	Length (m)			Length (m)	100	R 1 459.00	0	30-06-2010
Pipes	uPVC		450mm	Length (m)			Length (m)	100	R 2 689.72	0	30-06-2010
Pipes	uPVC		450mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		500mm	Length (m)			Length (m)	100	R 1 665.00	0	30-06-2010
Pipes	uPVC		500mm	Length (m)			Length (m)	100	R 3 042.70	0	30-06-2010
Pipes	uPVC		50mm	Length (m)			Length (m)	100	R 372.00	0	30-06-2010
Pipes	uPVC		50mm	Length (m)			Length (m)	100	R 450.12	0	30-06-2010
Pipes	uPVC		50mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		525mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		550mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		575mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		600mm	Length (m)			Length (m)	100	R 2 112.00	0	30-06-2010
Pipes	uPVC		600mm	Length (m)			Length (m)	100	R 2 856.22	0	30-06-2010
Pipes	uPVC		625mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		63mm	Length (m)			Length (m)	100	R 372.00	0	30-06-2010
Pipes	uPVC		63mm	Length (m)			Length (m)	100	R 450.12	0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	uPVC		63mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		650mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		675mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		700mm	Length (m)			Length (m)	100	R 2 112.00	0	30-06-2010
Pipes	uPVC		700mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		750mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		75mm	Length (m)			Length (m)	100	R 273.00	0	30-06-2010
Pipes	uPVC		75mm	Length (m)			Length (m)	100	R 372.00	0	30-06-2010
Pipes	uPVC		75mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		800mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		80mm	Length (m)			Length (m)	100	R 420.00	0	30-06-2010
Pipes	uPVC		80mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		825mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		850mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		900mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	uPVC		90mm	Length (m)			Length (m)	100	R 308.00	0	30-06-2010
Pipes	uPVC		90mm	Length (m)			Length (m)	100	R 372.00	0	30-06-2010
Pipes	uPVC		90mm	Length (m)			Length (m)	100	R 450.12	0	30-06-2010
Pipes	uPVC		90mm	Length (m)			Length (m)	100		0	30-06-2010
Pipes	Vitreous Clay		1000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		100mm	Length (m)			Length (m)	60	R 335.00	0	30-06-2010
Pipes	Vitreous Clay		1050mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		110mm	Length (m)			Length (m)	60	R 356.00	0	30-06-2010
Pipes	Vitreous Clay		1200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		140mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Vitreous Clay		1500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		150mm	Length (m)			Length (m)	60	R 459.00	0	30-06-2010
Pipes	Vitreous Clay		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		160mm	Length (m)			Length (m)	60	R 485.00	0	30-06-2010
Pipes	Vitreous Clay		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		1800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		180mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		200mm	Length (m)			Length (m)	60	R 1 208.41	0	30-06-2010
Pipes	Vitreous Clay		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		225mm	Length (m)			Length (m)	60	R 774.00	0	30-06-2010
Pipes	Vitreous Clay		250mm	Length (m)			Length (m)	60	R 870.00	0	30-06-2010
Pipes	Vitreous Clay		250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		25mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		300mm	Length (m)			Length (m)	60	R 907.00	0	30-06-2010
Pipes	Vitreous Clay		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		325mm	Length (m)			Length (m)	60	R 1 975.51	0	30-06-2010
Pipes	Vitreous Clay		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		355mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		375mm	Length (m)			Length (m)	60	R 2 113.32	0	30-06-2010
Pipes	Vitreous Clay		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		450mm	Length (m)			Length (m)	60	R 2 689.72	0	30-06-2010
Pipes	Vitreous Clay		450mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Vitreous Clay		500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		50mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		550mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		575mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		625mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		80mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		850mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		900mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Vitreous Clay		90mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		1000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		1050mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		1100mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		110mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		1200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		1250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		125mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		1350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		140mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Weholite		1500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		150mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		15mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		160mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		1650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		175mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		1800mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		180mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		2000mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		200mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		20mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		225mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		250mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		25mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		275mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		300mm	Length (m)			Length (m)	60	R 1 044.00	0	30-06-2010
Pipes	Weholite		300mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		315mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		325mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		32mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		350mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		355mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		375mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		400mm	Length (m)			Length (m)	60	R 1 424.00	0	30-06-2010
Pipes	Weholite		400mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		40mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		450mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		500mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		50mm	Length (m)			Length (m)	60		0	30-06-2010

vParent3	vParent4	vParent5	vConstituent	vDimCap1	vDimCap2	vDimCap3	vQuantityCap	iEUL	fRefUnitCost	fRV	Base Date
Pipes	Weholite		525mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		550mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		575mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		600mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		625mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		63mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		650mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		675mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		700mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		750mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		75mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		800mm	Length (m)			Length (m)	60	R 4 477.00	0	30-06-2010
Pipes	Weholite		80mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		825mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		850mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		900mm	Length (m)			Length (m)	60		0	30-06-2010
Pipes	Weholite		90mm	Length (m)			Length (m)	60		0	30-06-2010

## Annexure B.2: Current Unit rates

SubType UniqueCode	SubTypeDefinition	TypeDescription	UoM	EUL	CapitalRate	ValuationDate
AC-CU1	Compressor (100 litre)	Compressor (100 litre)	No	5	6 095.33	2015/07/30
BG-ALARM	Home Alarm (6 room house)	Buildings	No	5	11 764.88	2015/12/01
BG-BUAS	Ancillary services related to the type of building	Buildings	m2	15	6 853.13	2012/06/30
BG-BUDR1	Minimal gutters	Buildings	m	15	68.80	2013/02/28
BG-BUDR2	High class gutters	Buildings	m	15	92.15	2013/02/28
BG-BUDSF	UDS Toilet Fabric, low spec	Buildings	No	20	8 886.11	2012/06/30
BG-BUDSS	UDS Toilet Foundation, low spec	Buildings	No	30	1 146.73	2012/06/30
BG-BUEL1	Low spec electrical	Buildings	m2	15	397.41	2012/06/30
BG-BUEL2	High spec electrical	Buildings	m2	25	564.43	2012/06/30
BG-BUEX1	Double Brick Layer, Face brick Exterior	Buildings	m2	30	838.96	2012/06/30
BG-BUEX2	Plastered exterior (double brick layer)	Buildings	m2	15	925.01	2012/06/30
BG-BUEX3	Single brick face brick exterior	Buildings	m2	25	443.67	2012/06/30
BG-BUEX4	Single Brick Plastered exterior	Buildings	m2	25	557.95	2012/06/30
BG-BUEX5	1,2m Double brick plastered interior&exterior	Buildings	m	30	1 159.49	2012/06/30
BG-BUEX6	1,8m Double brick plastered interior&exterior	Buildings	m	30	1 653.19	2012/06/30
BG-BUEX7	2,4m Double brick plastered interior&exterior	Buildings	m	30	2 146.89	2012/06/30
BG-BUFL1	Bare floor (no finish)	Buildings	m2	25	114.27	2012/06/30
BG-BUFN1	Buildings, Marginal foundations	Buildings	m2	30	767.89	2012/06/30
BG-BUFN2	Building, Strong foundations	Buildings	m2	50	1 699.99	2012/06/30
BG-BUIF1	Minimal interior fabric - Class C building	Buildings	m2	20	563.50	2012/06/30
BG-BUIF2	Extensive and high class interior fabric - Class A building	Buildings	m2	20	684.50	2012/06/30
BG-BULS	Low spec buildings - Taxi Shelter/Bus shelter/Canopy/Shed/Minor Lifeguard tower/Parcel Counter/Paybooth/Garage	Buildings	m2	15	2 558.72	2012/06/30
BG-BUMS	Medium spec - Changeroom/Ablution/Store room/Sport Equipment room	Buildings	m2	25	5 309.82	2012/06/30
BG-BURF1	Corrugated Iron Roof And Fabric	Buildings	m2	20	180.97	2011/03/01
BG-BURF2	Flat concrete roof	Buildings	m2	30	321.55	2012/06/30
BG-BURF3	Grass Roof	Buildings	m2	15	1 388.96	2013/02/27
BG-BURF4	Tiled Roof	Buildings	m2	30	438.02	2013/07/31
BG-BUTM	Temporary shelter or building	Buildings	m2	15	2 825.82	2012/06/30
BG-BUWS1	Minimal toilets and basic wet services	Buildings	No	15	2 779.91	2013/02/27
BG-BUWS2	High class toilets and related wet services	Buildings	No	20	4 104.50	2013/02/27
BG-CEIL	Building Ceiling	Buildings	m2	30	178.18	2015/12/08
BG-COML	Low Spec Building (all inclusive), i.e RDP housing	Buildings	m2	25	2 100.00	2012/06/30
BG-FLGP	Flag Pole, Galvanised Steel	Buildings	m	30	580.33	2013/02/28
BG-GEY150	150L Geyser	Building	No	5	6 790.77	2015/12/02
BG-GEY200	200L Geyser	Building	No	5	8 946.57	2015/12/02



SubType UniqueCode	SubTypeDefinition	TypeDescription	UoM	EUL	CapitalRate	ValuationDate
BG-HOLS	Low specification buildings - Residential Low Rise RDP Houses	Buildings	m2	25	3 208.99	2012/06/30
BG-HOSE	Red Hose Reel	Building	No	5	2 619.30	2015/12/02
BG-PL	Building Plumbing	Buildings	m2	10	3 316.11	2010/06/30
BG-STC-C	Concrete Staircase	Buildings	No	30	9 204.00	2015/12/03
BG-STC-S2	Steel Staircase 2 Storey	Buildings	No	30	109 550.11	2012/06/30
BG-STC-S3	Steel Staircase 3 Storey	Buildings	No	30	164 355.61	2012/07/01
BG-STC-W	Wooden Staircase	Buildings	No	30	30 687.81	2015/12/03
BH-BH3	Borehole - Hand Operated	Boreholes	No	20	33 877.30	2012/06/30
BH-BH4	Borehole - Wind Pump	Boreholes	No	30	90 183.70	2012/06/30
BH-BH5	Borehole - Shaft & Casing only	Boreholes	No	50	50 453.22	2013/02/27
BH-BH6	Borehole - Shaft, Electric Motor & Pump	Boreholes	No	30	119 069.13	2012/06/30
BH-BH7	Borehole - Shaft, Diesel Mono & Pump	Boreholes	No	30	175 302.16	2012/06/30
BH-BHS2	Borehole - Solar Powered	Boreholes	No	30	155 368.29	2012/06/30
BIB-B01	Built in Braai	Built in Braai	No	10	6 447.94	2015/07/31
BR-ABUT.RC	Bridge Abutment, Reinforced Concrete	Bridges	m2	70	1 616.15	2012/06/30
BR-BAL.RC	Bridge Balustrade, Reinforced Concrete	Bridges	m	70	947.39	2012/06/30
BR-BEAR.PL	Bridge Bearings	Bridges	No	15	5 666.00	2015/08/15
BR-DEC.RC	Bridge Deck, Reinforced Concrete	Bridges	m2	80	920.98	2012/06/30
BR-JNT.SL	Bridge Compression Seal Joint	Bridges	m	20	107.82	2012/06/30
C-CCPS1	Camera Server	Camera Server	No	10	214 035.95	2015/07/29
C-CCTV-W	Wiring / Cabling	CCTV	NULL	10	5 694.33	2015/07/29
C-CMB1	50Hz PTZ Camera (incl. Brackets)	50Hz PTZ Camera (incl. Brackets)	No	10	58 840.46	2015/07/29
C-CVR1	Control, Viewer and recorder	CCTV	No	10	29 494.36	2015/07/29
C-VWST-CS1	Video Wall Solution Tv's & Computer Set	Video Wall Solution Tv's & Computer Set	No	10	45 507.05	2015/07/29
EL-11P	Pole & Support - 11m	Pole	No	20	1 839.01	2014/06/30
EL-14P	Pole & Support - 14m	Pole	No	20	2 564.32	2014/06/30
EL-2CSWA10	10mm 2C SWA PVC Cable	Electrical Cable - Overhead	m	25	57.51	2015/03/08
EL-2CSWA16	16mm 2C SWA PVC Cable	Electrical Cable - Overhead	m	25	69.01	2015/03/08
EL-3CSWA10	Cable - Airdeck (3 Core), 10mm 3C SWA PVC Cable	Electrical Cable - Overhead	m	25	73.94	2015/03/08
EL-3CSWA16	Cable - Airdeck (3 Core), 16mm 3C SWA PVC Cable	Electrical Cable - Overhead	m	25	108.45	2015/03/08
EL-4CSWA10	Cable - Airdeck (4 Core), 10mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	93.66	2015/03/08
EL-4CSWA120	120mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	854.43	2015/03/08
EL-4CSWA150	150mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	1 059.83	2015/03/08
EL-4CSWA16	Cable - Airdeck (4 Core), 16mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	126.52	2015/03/08
EL-4CSWA185	185mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	1 306.30	2015/03/08
EL-4CSWA25	25mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	197.18	2015/03/08
EL-4CSWA35	Cable - OH (4 Core), 35mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	271.12	2015/03/08
EL-4CSWA50	Cable - OH (4 Core), 50mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	369.71	2015/03/08
EL-4CSWA70	Cable - OH (4 Core), 70mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	517.59	2015/03/08

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EL-4CSWA95	Cable - OH (4 Core), 95mm 4C SWA PVC Cable	Electrical Cable - Overhead	m	25	690.12	2015/03/08
EL-9P	Pole & Support - 9m	Pole	No	20	1 601.10	2014/06/30
EL-CB100	100Amp Circuit Breaker	Circuit Breaker	No	7	1 921.30	2014/06/30
EL-CB1000	1000Amp Circuit Breaker	Circuit Breaker	No	7	49 461.31	2014/06/30
EL-CB125	125Amp Circuit Breaker	Circuit Breaker	No	7	2 682.81	2014/06/30
EL-CB15	15Amp Circuit Breaker	Circuit Breaker	No	7	1 201.72	2014/06/30
EL-CB150	150Amp Circuit Breaker	Circuit Breaker	No	7	2 932.12	2014/06/30
EL-CB160	160Amp Circuit Breaker	Circuit Breaker	No	7	2 932.12	2014/06/30
EL-CB20	20Amp Circuit Breaker	Circuit Breaker	No	7	1 201.72	2014/06/30
EL-CB200	200Amp Circuit Breaker	Circuit Breaker	No	7	4 874.42	2014/06/30
EL-CB225	225Amp Circuit Breaker	Circuit Breaker	No	7	4 874.42	2014/06/30
EL-CB240	240Amp Circuit Breaker	Circuit Breaker	No	7	5 326.57	2014/06/30
EL-CB250	250Amp Circuit Breaker	Circuit Breaker	No	7	5 326.57	2014/06/30
EL-CB300	300Amp Circuit Breaker	Circuit Breaker	No	7	10 983.50	2014/06/30
EL-CB32	32Amp Circuit Breaker	Circuit Breaker	No	7	1 300.31	2014/06/30
EL-CB40	40Amp Circuit Breaker	Circuit Breaker	No	7	1 300.31	2014/06/30
EL-CB400	400Amp Circuit Breaker	Circuit Breaker	No	7	10 983.50	2014/06/30
EL-CB43	43Amp Circuit Breaker	Circuit Breaker	No	7	1 300.31	2014/06/30
EL-CB450	450Amp Circuit Breaker	Circuit Breaker	No	7	14 284.51	2014/06/30
EL-CB50	50Amp Circuit Breaker	Circuit Breaker	No	7	1 300.31	2014/06/30
EL-CB500	500Amp Circuit Breaker	Circuit Breaker	No	7	14 284.51	2014/06/30
EL-CB60	60Amp Circuit Breaker	Circuit Breaker	No	7	1 300.31	2014/06/30
EL-CB600	600Amp Circuit Breaker	Circuit Breaker	No	7	14 284.51	2014/06/30
EL-CB630	630Amp Circuit Breaker	Circuit Breaker	No	7	14 284.51	2014/06/30
EL-CB75	75Amp Circuit Breaker	Circuit Breaker	No	7	1 712.79	2014/06/30
EL-CB80	80Amp Circuit Breaker	Circuit Breaker	No	7	1 712.79	2014/06/30
EL-CB800	800Amp Circuit Breaker	Circuit Breaker	No	7	49 461.31	2014/06/30
EL-CNTRPNL	Electrical Control Panel	Electrical	No	7	28 592.81	2015/08/15
EL-DISH	Satellite dish used for DSTV	Electrical	No	15	459.61	2013/02/13
EL-EC	Electrical Components	Electrical	No	15	397.41	2012/06/30
EL-ELCAB	Electrical Cables	Electrical	m	45	280.45	2012/06/30
EL-ELDB	Electrical DB Panel	Electrical	No	5	2 879.75	2012/09/30
EL-ELPOL	Electrical Pole, wooden	Electrical	No	20	1 356.94	2012/06/30
EL-ELPU	Electrical components for Pump, Telemetry & Controls	Electrical	No	10	5 129.41	2012/06/30
EL-ELTF	Electrical Transformers	Electrical	KVA	50	298.94	2012/08/17
EL-ISO	Electrical Isolator	Electrical	No	20	685.38	2013/01/31
EL-KIOSK	Distribution Kiosk	Electrical	No	30	23 822.88	2012/07/13
EL-MS0100	Mini Substation - 100kVA	Electrical	No	30	264 937.00	2013/07/04
EL-MS0200	Mini Substation - 200kVA	Electrical	No	30	302 373.75	2013/07/04
EL-MS0300	Mini Substation - 300kVA	Electrical	No	30	329 919.13	2013/07/04

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EL-MS0315	Mini Substation - 315kVA	Electrical	No	30	334 051.00	2013/07/04
EL-MS0400	Mini Substation - 400kVA	Electrical	No	30	360 287.83	2013/07/04
EL-MS0500	Mini Substation - 500kVA	Electrical	No	30	391 154.83	2013/07/04
EL-MS0630	Mini Substation - 630kVA	Electrical	No	30	432 964.65	2013/07/04
EL-MS1000	Mini Substation - 1000kVA	Electrical	No	30	551 965.66	2013/07/04
EL-SG630	Switchgear & Control Panels	Electrical	No	30	222 115.05	2012/08/29
EL-SL10	Streetlight With Overhang - 10m	Lighting	No	15	5 834.37	2013/02/25
EL-SL12	Streetlight With Overhang - 12m	Lighting	No	25	6 905.64	2013/02/25
EL-TRFR032	Transformer 0-50 kVA	Electrical	KVA	40	944.56	2013/07/05
EL-TRFR050	Transformer 50-100 kVA	Electrical	KVA	40	680.54	2013/07/05
EL-TRFR150	Transformer 100-200 kVA	Electrical	KVA	40	471.70	2013/07/05
EL-TRFR200	Transformer 200-300 kVA	Electrical	KVA	40	452.24	2013/07/05
EL-TRFR315	Transformer 300-400 kVA	Electrical	KVA	40	477.12	2013/07/05
EL-TRFR400	Transformer 400-500 kVA	Electrical	KVA	40	394.64	2013/07/05
EL-TRFR500	Transformer 500-600 kVA	Electrical	KVA	40	386.69	2013/07/05
EL-TRFR630	Transformer 600-800 kVA	Electrical	KVA	40	346.38	2013/07/05
EL-TRFR800	Transformer 800-1000 kVA	Electrical	KVA	40	293.62	2013/07/05
FC-BV18	Bonnox/Veldspan Fence - 1.8m high	Fencing	m	20	120.15	2013/02/01
FC-BV21	Bonnox/Veldspan Fence - 2.1m high	Fencing	m	20	133.62	2013/02/01
FC-BW5	Barbed Wire Fence 5 Strands	Fencing	m	20	18.09	2012/06/30
FC-BW8	Barbed Wire Fence 8 Strands	Fencing	m	20	24.12	2012/06/30
FC-CP18	Concrete Palisade Fence - 1.8 m high	Fencing	m	25	196.84	2012/06/30
FC-CP24	Concrete Palisade Fence - 2.4 m high	Fencing	m	25	300.93	2012/06/30
FC-CS18	Concrete Slab Fence - 1.8m high	Fencing	m	25	399.97	2013/02/28
FC-CS21	Concrete Slab Fence - 2.1m high	Fencing	m	25	428.94	2013/02/28
FC-CV1.8	1.8 m Clear View Fence (G+PPC)	Clear View Fence	m	20	907.82	2016/07/26
FC-CV2.0	2.0 m Clear View Fence (G+PPC)	Clear View Fence	m	20	981.33	2016/07/26
FC-CV2.4	2.4 m Clear View Fence (G+PPC)	Clear View Fence	m	20	1 143.88	2016/07/26
FC-DM12	Woven Diamond Mesh Fence - 1.2m high	Fencing	m	20	182.44	2012/06/30
FC-DM15	Woven Diamond Mesh Fence - 1.5m high	Fencing	m	20	220.92	2012/06/30
FC-DM18	Woven Diamond Mesh Fence - 1.8m high	Fencing	m	20	259.50	2012/06/30
FC-EF	Electrical Fence 12 Strands	Fencing	m	20	184.40	2013/02/28
FC-EWT	Electrical Wall Top Fence	Fencing	m	20	61.98	2013/02/28
FC-MW12	Masonry Wall - 1.2 m high	Fencing	m	25	710.52	2012/06/30
FC-MW18	Masonry Wall - 1.8 m high	Fencing	m	25	964.55	2012/06/30
FC-MW24	Masonry Wall - 2.4 m high	Fencing	m	25	1 218.58	2012/06/30
FC-RBTC	Ripper Barbed Tape - Concertina	Fencing	m	20	69.43	2012/06/30
FC-RBTF	Ripper Barbed Tape - Flatwrap	Fencing	m	20	64.89	2011/10/01
FC-RM18	Razor Mesh Fence - 1.8m high	Fencing	m	20	289.42	2012/06/30
FC-RM21	Razor Mesh Fence - 2.1m high	Fencing	m	20	320.48	2012/06/30

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FC-SP	Steel Palisade Fence - 2.1 m high	Fencing	m	20	1 337.32	2013/01/31
FC-WM12	Welded Mesh Fence - 1.2m high	Fencing	m	20	215.39	2012/06/30
FC-WM18	Welded Mesh Fence - 1.8m high	Fencing	m	20	295.00	2012/06/30
FC-WM24	Welded Mesh Fence - 2.4m high	Fencing	m	20	336.06	2012/06/30
FD-CF	Concrete Foundation	Foundation	m2	30	798.65	2012/06/30
FD-CFM3	Concrete Foundation	Foundation	m3	30	1 677.78	2012/06/30
FG-CVP1.8	Clear View Gate 1.8m - Pedestrian	Gates	m	20	2 565.45	2016/07/26
FG-CVP2.0	Clear View Gate 2.0m - Pedestrian	Gates	m	20	2 789.61	2016/07/26
FG-CVP2.4	Clear View Gate 2.4m - Pedestrian	Gates	m	20	3 204.73	2016/07/26
FG-CVV1.8	Clear View Gate 1.8m - Vehicle	Gates	m	20	2 565.45	2016/07/26
FG-CVV2.0	Clear View Gate 2.0m - Vehicle	Gates	m	20	2 789.61	2016/07/26
FG-CVV2.4	Clear View Gate 2.4m - Vehicle	Gates	m	20	3 204.73	2016/07/26
FG-DGP12	Diamond Mesh Gate 1.2m high - Pedestrian	Gates	No	20	1 412.25	2012/06/30
FG-DGP18	Diamond Mesh Gate 1.8m high - Pedestrian	Gates	No	20	2 173.37	2012/06/30
FG-DGP24	Diamond Mesh Gate 2.4m high - Pedestrian	Gates	No	20	2 879.51	2012/06/30
FG-DGV12	Diamond Mesh Gate 1.2m high - Vehicle	Gates	No	20	4 731.53	2012/06/30
FG-DGV18	Diamond Mesh Gate 1.8m high - Vehicle	Gates	No	20	6 608.94	2012/06/30
FG-DGV24	Diamond Mesh Gate 2.4m high - Vehicle	Gates	No	20	8 794.98	2012/06/30
FG-FGP	Farm Gate - Pedestrian	Gates	No	20	1 649.66	2012/06/30
FG-FGV	Farm Gate - Vehicle	Gates	No	20	2 770.23	2012/06/30
FG-SPGP	Steel Palisade Gate - Pedestrian	Gates	No	20	2 196.56	2013/01/31
FG-SPGV	Steel Palisade Gate - Vehicle	Gates	No	20	9 977.32	2013/01/31
FG-TS	Turnstile Gate	Gates	No	20	29 396.49	2013/02/27
GD-SGL-2440(w)x2135(h)	Single Chromadeck Roll Up Garage Door	Garage Door	No	10	6 499.67	2015/07/30
GF-GAFU	Garden Feature- Gazebo/Irrigation/Benches/Picnic Table/Pergola	Gardens	No	10	3 171.88	2012/06/30
GF-GAOA	Garden Open Area	Grassed Area	m2	20	37.36	2013/06/30
GF-GAPE	Playground Equipment - Swings, See-saw, Slides, Jungle Gym	Gardens	No	7	4 823.79	2012/06/30
GP-TRAMA	2.2m x 2.9m Trampoline	Gardens	No	7	6 036.24	2015/12/02
GP-TRAMB	2.5m x 3.9m Trampoline	Gardens	No	7	8 299.83	2015/12/02
GP-TRAMC	2.6m x 4.4m Trampoline	Gardens	No	7	9 054.36	2015/12/02
GP-TRAMD	2.8m x 4.6m Trampoline	Gardens	No	7	9 916.68	2015/12/02
GS-GS01	Grass Surface	Grass	m2	100	33.81	2015/07/30
HR-HRT1	Galvanised Handrails	Galvanised Handrails	m	10	253.97	2011/11/01
IR-B01	Irrigation	Irrigation System	m2	5	3.10	2015/07/31
LD-ELRU	Rural Land	Land	m2	1 000	1.00	2012/06/30
LG-LIFS	Lighting, Small mast, Foundation	Lighting	No	30	864.52	2012/06/30
LG-LILF	Large Lighting - Mast Foundation	Lighting	No	30	27 028.98	2012/06/30

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LG-LIMF	Lighting, medium mast, Foundation	Lighting	No	30	14 218.80	2012/06/30
LG-LIPO	Lighting Mast Pole	Lighting	m	30	2 348.72	2013/02/25
LG-LISM	Lighting, medium mast Spot Light	Lighting	No	30	72 754.00	2013/02/25
LG-LU01	Mast Luminaires - 150W	Lighting	No	10	3 651.52	2013/06/28
LG-LU02	Mast Luminaires - 250W	Lighting	No	7	3 633.09	2013/06/28
LG-LU04	Mast Luminaires - 400W	Lighting	No	7	3 832.37	2013/06/28
LG-LU06	Mast Luminaires - 600W	Lighting	No	10	6 664.89	2013/06/28
LG-LU10	Mast Luminaires - 1000W	Lighting	No	7	7 655.53	2013/06/28
ME-BM0015	Meter - 15mm	Meter - Water	No	10	834.94	2013/02/27
ME-BM0020	Meter - 20mm	Meter - Water	No	10	843.69	2013/02/27
ME-BM0025	Meter - 25mm	Meter - Water	No	10	1 193.67	2013/02/27
ME-BM0040	Meter - 40mm	Meter - Water	No	10	3 692.61	2013/02/27
ME-BM0050	Meter - 50mm	Meter - Water	No	10	4 103.84	2013/02/27
ME-BM0080	Meter - 80mm	Meter - Water	No	10	4 149.36	2013/02/27
ME-BM0100	Meter - 100mm	Meter - Water	No	10	4 779.19	2013/02/27
ME-BM0150	Meter - 150mm	Meter - Water	No	10	9 339.89	2013/02/27
ME-BM0200	Meter - 200mm	Meter - Water	No	20	11 612.89	2013/02/27
ME-BM0250	Meter - 250mm	Meter - Water	No	20	19 741.44	2013/02/27
ME-BM0300	Meter - 300mm	Meter - Water	No	10	28 562.94	2013/02/27
ME-GN100	Generator: (100 kVa)	Generators	No	40	253 172.65	2012/09/12
ME-GN1000	Generator: (1000 kVa)	Generators	No	40	2 995 942.15	2012/09/12
ME-GN40	Generator: (40 kVa)	Generators	No	40	170 662.05	2012/09/12
ME-GN500	Generator: (500 kVa)	Generators	No	40	1 050 954.40	2012/09/12
ME-GN60	Generator: (60 kVa)	Generators	No	40	201 876.23	2012/09/12
ME-MCD	WTW-Motor, Chemical dosing	Motor	No	10	50 104.01	2013/08/15
ME-MEHV	Air-conditioning - Fans, Cooling Unit, Water Towers, Ducting	Mechanical	No	5	4 089.25	2013/02/27
ME-MEPU	Pumps (1KW)	Pumps	No	10	5 256.60	2012/12/01
ME-MEPU1	Pump with diesel mono	Pumps	No	10	11 626.70	2012/12/01
ME-MEPU2	Electric Submersible pump	Pumps	No	10	4 054.69	2012/12/01
ME-MEPU3	Centrifugal Pump	Pumps	No	10	8 764.79	2012/12/01
ME-MOT1.5	Motor - 1.5kW	Motor	No	10	2 818.69	2013/08/15
ME-MOT15	Motor - 15kW	Motor	No	10	21 726.83	2013/08/15
ME-MOT18.5	Motor - 18.5kW	Motor	No	10	27 713.67	2013/08/15
ME-MOT2.2	Motor - 2.2kW	Motor	No	10	6 373.59	2013/08/15
ME-MOT30	Motor - 30kW	Motor	No	10	40 267.09	2013/08/15
ME-MOT37	Motor - 37kW	Motor	No	10	58 109.48	2013/08/15
ME-MOT4	Motor - 4kW	Motor	No	10	11 076.43	2013/08/15
ME-MOT45	Motor - 45kW	Motor	No	10	50 104.01	2013/08/15
ME-MOT5.5	Motor - 5.5kW	Motor	No	10	16 558.85	2013/08/15

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ME-MOT7.5	Motor - 7.5kW	Motor	No	10	17 300.04	2013/08/15
ME-OHDCRN	Overhead Crane/Gantry Crane	Mechanical	No	30	216 803.87	2015/06/30
ME-SDM	Clarifier scraper drive motor	Motor	No	10	3 936.01	2013/08/15
ME-SG	Mechanical - Sluice Gate	Mechanical	No	20	50 407.71	2015/08/17
ME-ST0040	Strainer/Dirt Box, 40mm	Strainers	No	25	2 535.70	2013/04/15
ME-ST0050	Strainer/Dirt Box, 50mm	Strainers	No	25	2 966.16	2013/04/15
ME-ST0080	Strainer/Dirt Box, 80mm	Strainers	No	25	3 195.22	2013/04/15
ME-ST0100	Strainer/Dirt Box, 100mm	Strainers	No	25	3 640.14	2013/04/15
ME-ST0150	Strainer/Dirt Box, 150mm	Strainers	No	25	5 913.10	2013/04/15
ME-ST0200	Strainer/Dirt Box, 200mm	Strainers	No	25	5 393.51	2013/04/15
ME-ST0250	Strainer/Dirt Box, 250mm	Strainers	No	25	9 725.14	2013/04/15
ME-ST0300	Strainer/Dirt Box, 300mm	Strainers	No	25	14 374.98	2013/04/15
MEV-ACV050	Altitude Control Valve - 50 mm	Valves	No	20	13 951.99	2013/02/27
MEV-ACV065	Altitude Control Valve - 65 mm	Valves	No	20	19 725.44	2013/02/27
MEV-ACV080	Altitude Control Valve - 80 mm	Valves	No	20	25 123.15	2013/02/27
MEV-ACV100	Altitude Control Valve - 100 mm	Valves	No	20	32 983.56	2013/02/27
MEV-ACV150	Altitude Control Valve - 150 mm	Valves	No	20	50 196.00	2013/02/27
MEV-ACV200	Altitude Control Valve - 200 mm	Valves	No	20	74 361.13	2013/02/27
MEV-ACV250	Altitude Control Valve - 250 mm	Valves	No	20	84 392.72	2013/02/27
MEV-ACV300	Altitude Control Valve - 300 mm	Valves	No	20	108 501.42	2013/02/27
MEV-ASV050	Anti-Shock Air Release Valve - 50 mm	Valves	No	20	6 736.37	2013/04/12
MEV-ASV065	Anti-Shock Air Release Valve - 65 mm	Valves	No	20	7 675.93	2013/04/12
MEV-ASV075	Anti-Shock Air Release Valve - 75 mm	Valves	No	20	9 495.43	2013/04/12
MEV-ASV080	Anti-Shock Air Release Valve - 80/90 mm	Valves	No	20	10 206.96	2013/04/12
MEV-ASV100	Anti-Shock Air Release Valve - 100 mm	Valves	No	20	11 250.37	2013/04/12
MEV-ASV150	Anti-Shock Air Release Valve - 150 mm	Valves	No	20	23 832.56	2013/04/12
MEV-ASV200	Anti-Shock Air Release Valve - 200 mm	Valves	No	20	32 747.78	2013/04/12
MEV-ASV350	Anti-Shock Air Release Valve - 350 mm	Valves	No	20	50 434.23	2013/04/12
MEV-BFV100	Butterfly Valve - 100 mm	Valves	No	20	1 837.74	2013/04/12
MEV-BFV125	Butterfly Valve - 125 mm	Valves	No	20	2 267.54	2013/04/12
MEV-BFV150	Butterfly Valve - 150 mm	Valves	No	20	2 664.48	2013/04/12
MEV-BFV200	Butterfly Valve - 200 mm	Valves	No	20	4 461.83	2013/04/12
MEV-BFV250	Butterfly Valve - 250 mm	Valves	No	20	7 155.16	2013/04/12
MEV-BFV300	Butterfly Valve - 300 mm	Valves	No	20	9 537.27	2013/04/12
MEV-BFV350	Butterfly Valve - 350 mm	Valves	No	20	13 214.09	2013/04/12
MEV-BFV400	Butterfly Valve - 400 mm	Valves	No	20	20 681.73	2013/04/12
MEV-BFV50	Butterfly Valve - 50 mm	Valves	No	20	816.98	2013/04/12
MEV-BFV500	Butterfly Valve - 500 mm	Valves	No	20	26 544.95	2013/04/12
MEV-BFV80	Butterfly Valve - 80 mm	Valves	No	20	1 512.28	2013/04/12
MEV-BV100	Ball Valve - 100 mm	Valves	No	20	8 420.00	2013/04/15

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MEV-BV15	Ball Valve - 15 mm	Valves	No	20	439.25	2013/04/15
MEV-BV20	Ball Valve - 20 mm	Valves	No	20	408.19	2013/04/15
MEV-BV25	Ball Valve - 25 mm	Valves	No	20	382.02	2013/04/15
MEV-BV32	Ball Valve - 32 mm	Valves	No	20	847.44	2013/04/15
MEV-BV40	Ball Valve - 40 mm	Valves	No	20	1 236.19	2013/04/15
MEV-BV50	Ball Valve - 50 mm	Valves	No	20	1 289.67	2013/04/15
MEV-BV80	Ball Valve - 80 mm	Valves	No	20	4 863.07	2013/04/15
MEV-GV100	Gate Valve - 100 mm	Valves	No	20	6 626.19	2013/04/12
MEV-GV110S	Gate Valve - 110 mm Socketed	Valves	No	20	2 567.94	2013/04/12
MEV-GV150	Gate Valve - 150 mm	Valves	No	20	8 958.82	2013/04/12
MEV-GV160S	Gate Valve - 160 mm Socketed	Valves	No	20	5 011.98	2013/04/12
MEV-GV200	Gate Valve - 200 mm	Valves	No	20	13 737.78	2013/04/12
MEV-GV200S	Gate Valve - 200 mm Socketed	Valves	No	20	8 169.91	2013/04/12
MEV-GV250	Gate Valve - 250 mm	Valves	No	20	21 293.83	2013/04/12
MEV-GV250S	Gate Valve - 250 mm Socketed	Valves	No	20	14 433.46	2013/04/12
MEV-GV300	Gate Valve - 300 mm	Valves	No	20	28 536.14	2013/04/12
MEV-GV315S	Gate Valve - 315 mm Socketed	Valves	No	20	20 005.88	2013/04/12
MEV-GV400	Gate Valve - 400 mm	Valves	No	20	40 277.76	2013/04/12
MEV-GV400S	Gate Valve - 400 mm Socketed	Valves	No	20	43 293.59	2013/04/12
MEV-GV450	Gate Valve - 450 mm	Valves	No	20	112 925.95	2013/04/12
MEV-GV50	Gate Valve - 50 mm	Valves	No	20	3 445.53	2013/04/12
MEV-GV500	Gate Valve - 500 mm	Valves	No	20	125 961.19	2013/04/12
MEV-GV50S	Gate Valve - 50 mm Socketed	Valves	No	20	1 771.07	2013/04/12
MEV-GV600	Gate Valve - 600 mm	Valves	No	20	159 655.96	2013/04/12
MEV-GV63S	Gate Valve - 63 mm Socketed	Valves	No	20	1 862.01	2013/04/12
MEV-GV75S	Gate Valve - 75 mm Socketed	Valves	No	20	2 074.60	2013/04/12
MEV-GV80	Gate Valve - 80 mm	Valves	No	20	3 838.84	2013/04/12
MEV-GV90S	Gate Valve - 90 mm Socketed	Valves	No	20	2 317.86	2013/04/12
MEV-NRV050	Non-Return Valve - 50 mm	Valves	No	20	778.35	2013/02/27
MEV-NRV080	Non-Return Valve - 80 mm	Valves	No	20	1 532.60	2013/02/27
MEV-NRV100	Non-Return Valve - 100 mm	Valves	No	20	1 780.32	2013/02/27
MEV-NRV125	Non-Return Valve - 125 mm	Valves	No	20	2 984.42	2013/02/27
MEV-NRV150	Non-Return Valve - 150 mm	Valves	No	20	3 965.76	2013/02/27
MEV-NRV200	Non-Return Valve - 200 mm	Valves	No	20	5 415.78	2013/02/27
MEV-NRV250	Non-Return Valve - 250 mm	Valves	No	20	7 010.02	2013/02/27
MEV-NRV300	Non-Return Valve - 300 mm	Valves	No	20	8 620.26	2013/02/27
MEV-PRV050	Pressure Reducing Valve - 50 mm	Valves	No	20	9 894.21	2013/02/27
MEV-PRV080	Pressure Reducing Valve - 80 mm	Valves	No	20	11 147.85	2013/02/27
MEV-PRV100	Pressure Reducing Valve - 100 mm	Valves	No	20	13 712.79	2013/02/27
MEV-PRV150	Pressure Reducing Valve - 150 mm	Valves	No	20	24 883.95	2013/02/27

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MEV-PRV200	Pressure Reducing Valve - 200 mm	Valves	No	20	32 744.36	2013/02/27
MEV-PRV250	Pressure Reducing Valve - 250 mm	Valves	No	20	49 956.80	2013/02/27
MEV-PRV300	Pressure Reducing Valve - 300 mm	Valves	No	20	74 123.16	2013/02/27
MEV-PRV350	Pressure Reducing Valve - 350 mm	Valves	No	20	77 885.16	2013/02/27
ME-WP1	Pipework Miscellaneous (exposed/visible)	Mechanical	No	10	773.00	2013/04/15
ME-WP3	Ladder - Steel	Reservoirs	No	20	13 606.77	2013/10/03
MSC-270-324uf/330V	270uf - 324uf x 330V Motor start capacitors	Pumps - Motor start capacitors	No	10	409.92	2015/07/30
MS-MSES	Low Walls and other external structures (generally masonry)	Buildings	m2	25	443.67	2012/06/30
MS-MSFS	Structures with Heritage or other purpose - Statue/Memorial/Monument	Buildings	m2	25	6 819.02	2012/06/30
MS-MSSC	Shade Cloth Shelter	Shelter	m2	10	542.56	2015/07/15
MS-MSTT	TV Tower	Buildings	m	25	5 621.41	2013/02/27
MSTP-5.6kW-3P	5.6kW Motor Scope (Trio Panel)	Pumps - Motor Scope	No	5	3 245.44	2015/07/30
MSUP-2.2kW-1P	2.2kW Motor Scope (Uno Panel)	Pumps - Motor Scope	No	10	3 289.63	2015/07/30
PA-PACP	Concrete Paving	Paving	m2	25	510.87	2012/06/30
PA-PALT	Internal Road/Parking lot (incl formation and pavement layers)	Paving	m2	25	822.68	2012/06/30
PA-PAPE	Pathway/Paved walkway	Paving	m2	20	279.48	2012/06/30
PC-VC1000	Chamber - Precast (Round) 1m dia	Chambers	m	20	2 478.22	2013/04/15
PC-VC1250	Chamber - Precast (Round) 1,25m dia	Chambers	m	20	3 304.82	2013/04/15
PC-VC1500	Chamber - Precast (Round) 1,5m dia	Chambers	m	20	4 798.59	2013/04/15
PC-VC750	Chamber - Precast (Round), 0.75m dia	Chambers	m	20	1 924.28	2013/04/15
PE-CPE	Concrete Protective Enclosure	Protective Enclosure	No	20	8 886.11	2012/06/30
PG - 60-1600KPA	Pressure Gauge - 60KPA-1600KPA	Gauge	No	20	884.98	2015/07/30
PG-CON-150	150mm Concrete Pipe	Pipes	m	50	1 271.88	2013/06/30
PG-CON-225	225mm Concrete Pipe	Pipes	m	50	1 412.34	2013/06/30
PG-CON-300	300mm Concrete Pipe	Pipes	m	50	1 568.70	2013/06/30
PG-CON-375	375mm Concrete Pipe	Pipes	m	50	1 742.37	2013/06/30
PG-CON-450	450mm Concrete Pipe	Pipes	m	50	1 624.92	2013/06/30
PG-CON-525	525mm Concrete Pipe	Pipes	m	50	2 149.53	2013/06/30
PG-CON-600	600mm Concrete Pipe	Pipes	m	50	2 250.77	2013/06/30
PG-CON-825	825mm Concrete Pipe	Pipes	m	50	3 271.50	2013/06/30
PG-GPA01	110mm Asbestos Cement Pipe	Pipes	m	50	223.82	2013/04/15
PG-GPA02	160mm Asbestos Cement Pipe	Pipes	m	50	473.48	2013/04/15
PG-GPA03	200mm Asbestos Cement Pipe	Pipes	m	50	738.06	2013/04/15
PG-GPA04	250mm Asbestos Cement Pipe	Pipes	m	50	1 218.87	2013/04/15
PG-GPA05	300mm Asbestos Cement Pipe	Pipes	m	50	1 905.34	2013/04/15
PG-GPA06	450mm Asbestos Cement Pipe	Pipes	m	50	3 199.16	2013/04/15



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PG-GPA07	600mm Asbestos Cement Pipe	Pipes	m	50	3 199.16	2013/04/15
PG-GPC08	675mm Concrete Pipe	Pipes	m	50	2 651.82	2013/06/30
PG-GPC09	750mm Concrete Pipe	Pipes	m	50	3 129.23	2013/06/30
PG-GPC11	900mm Concrete Pipe	Pipes	m	50	4 287.61	2013/06/30
PG-GPC12	1050mm Concrete Pipe	Pipes	m	50	4 482.80	2013/06/30
PG-GPC13	1200mm Concrete Pipe	Pipes	m	50	6 013.80	2013/06/30
PG-GPC14	1350mm Concrete Pipe	Pipes	m	50	7 074.32	2013/06/30
PG-GPC15	1500mm Concrete Pipe	Pipes	m	50	8 416.95	2013/06/30
PG-GPC16	1650mm Concrete Pipe	Pipes	m	50	10 383.81	2013/06/30
PG-GPC17	1800mm Concrete Pipe	Pipes	m	50	12 810.28	2013/06/30
PG-GPMH	Manholes - Catch Pit (Without Cover)	Manholes	No	15	1 583.30	2012/06/30
PG-HDPE400	HDPE Pipe - 400 mm	Pipes	m	50	876.06	2012/08/01
PG-HDPE450	HDPE Pipe - 450 mm	Pipes	m	50	963.67	2012/08/01
PG-HDPE500	HDPE Pipe - 500 mm	Pipes	m	50	1 226.49	2012/08/01
PG-HDPE600	HDPE Pipe - 600 mm	Pipes	m	50	2 102.56	2012/08/01
PG-HDPE700	HDPE Pipe - 700 mm	Pipes	m	50	2 803.41	2012/08/01
PG-HDPE800	HDPE Pipe - 800 mm	Pipes	m	50	3 066.23	2012/08/01
PG-HDPE900	HDPE Pipe - 900 mm	Pipes	m	50	4 467.93	2012/08/01
PG-MHC	Manhole - Complete	Manholes	No	15	3 442.57	2012/06/30
PG-MHCF	Manholes - Cover & Frame incl Conc. cover slab (600x600mm)	Manholes	No	15	1 859.27	2012/06/30
PP-HDPE110	HDPE Pipe - 110 mm	Pipes	m	50	327.50	2012/08/01
PP-HDPE50	HDPE Pipe - 50 mm	Pipes	m	50	69.18	2012/08/01
PP-HDPE63	HDPE Pipe - 63 mm	Pipes	m	50	108.84	2012/08/01
PP-HDPE75	HDPE Pipe - 75 mm	Pipes	m	50	152.57	2012/08/01
PP-HDPE90	HDPE Pipe - 90 mm	Pipes	m	50	220.70	2012/08/01
PP-PVC110	uPVC Pipe - 110 mm	Pipes	m	50	223.82	2013/04/15
PP-PVC125	uPVC Pipe - 125 mm	Pipes	m	50	285.56	2013/04/15
PP-PVC140	uPVC Pipe - 140 mm	Pipes	m	50	366.66	2013/04/15
PP-PVC160	uPVC Pipe - 160 mm	Pipes	m	50	473.48	2013/04/15
PP-PVC200	uPVC Pipe - 200 mm	Pipes	m	50	738.06	2013/04/15
PP-PVC250	uPVC Pipe - 250 mm	Pipes	m	50	1 218.87	2013/04/15
PP-PVC315	uPVC Pipe - 315 mm	Pipes	m	50	1 905.34	2013/04/15
PP-PVC355	uPVC Pipe - 355 mm	Pipes	m	50	2 399.09	2013/04/15
PP-PVC400	uPVC Pipe - 400 mm	Pipes	m	50	3 199.16	2013/04/15
PP-PVC50	uPVC Pipe - 50 mm	Pipes	m	50	62.16	2013/04/15
PP-PVC63	uPVC Pipe - 63 mm	Pipes	m	50	93.63	2013/04/15
PP-PVC75	uPVC Pipe - 75 mm	Pipes	m	50	130.17	2013/04/15
PP-PVC90	uPVC Pipe - 90 mm	Pipes	m	50	185.98	2013/04/15
PP-STL100	Steel Pipe - 100 mm	Pipes	m	50	707.45	2013/04/19

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PP-STL1000	Steel Pipe - 1000 mm	Pipes	m	50	8 647.90	2013/04/15
PP-STL125	Steel Pipe - 125 mm	Pipes	m	50	936.01	2013/04/19
PP-STL15	Steel Pipe - 15 mm	Pipes	m	50	71.92	2013/04/19
PP-STL150	Steel Pipe - 150 mm	Pipes	m	50	1 119.42	2013/04/19
PP-STL20	Steel Pipe - 20 mm	Pipes	m	50	92.62	2013/04/19
PP-STL200	Steel Pipe - 200 mm	Pipes	m	50	1 284.35	2013/04/15
PP-STL25	Steel Pipe - 25 mm	Pipes	m	50	143.19	2013/04/19
PP-STL250	Steel Pipe - 250 mm	Pipes	m	50	1 743.25	2013/04/15
PP-STL300	Steel Pipe - 300 mm	Pipes	m	50	2 074.29	2013/04/15
PP-STL32	Steel Pipe - 32 mm	Pipes	m	50	183.17	2013/04/19
PP-STL350	Steel Pipe - 350 mm	Pipes	m	50	2 282.12	2013/04/15
PP-STL40	Steel Pipe - 40 mm	Pipes	m	50	208.76	2013/04/19
PP-STL400	Steel Pipe - 400 mm	Pipes	m	50	2 606.75	2013/04/15
PP-STL450	Steel Pipe - 450 mm	Pipes	m	50	2 937.77	2013/04/15
PP-STL50	Steel Pipe - 50 mm	Pipes	m	50	298.79	2013/04/19
PP-STL500	Steel Pipe - 500 mm	Pipes	m	50	4 062.09	2013/04/15
PP-STL600	Steel Pipe - 600 mm	Pipes	m	50	4 238.41	2013/04/15
PP-STL65	Steel Pipe - 65 mm	Pipes	m	50	382.48	2013/04/19
PP-STL700	Steel Pipe - 700 mm	Pipes	m	50	4 697.74	2013/04/15
PP-STL80	Steel Pipe - 80 mm	Pipes	m	50	500.63	2013/04/19
PP-STL800	Steel Pipe - 800 mm	Pipes	m	50	7 067.70	2013/04/15
PP-STL900	Steel Pipe - 900 mm	Pipes	m	50	7 774.62	2013/04/15
PP-STP	Standpipe - Communal	Standpipe	No	10	2 532.79	2012/06/30
PS-DI0-15	Electric pump	Pumps	kW	20	7 487.35	2012/09/27
PS-SB16-40	Electric pump	Pumps	kW	20	3 110.13	2012/09/27
PS-SB40+	Electric pump	Pumps	kW	20	2 188.61	2012/09/27
P-WDPL	Wooden Pole	150mm-174mm Thick Wooden Pole	m	20	104.15	2015/07/31
RD-A-M-F	Asphalt - Medium	Roads - Formation	m2	30	159.42	2015/08/11
RDA-REWB	Weigh Bridge	Weigh Bridge	No	20	630 625.80	2014/06/30
RDA-SDW-HI	Sidewalk excluding drainage (High Standard Variable)	Road - Ancillary	m2	30	306.31	2014/06/30
RDA-SDW-LOW	Sidewalk excluding drainage (Low Standard Slurry/Gravel)	Road - Ancillary	m2	10	98.02	2014/06/30
RDA-SDW-MED	Sidewalk excluding drainage (Meduim Standard Variable)	Road - Ancillary	m2	20	183.78	2014/06/30
RDD-BC1	Box Culvert, concrete	Stormwater	m	60	2 109.66	2014/06/30
RDD-CC	Road Drainage - Concrete Channel	Roads - Drainage	m	40	5 046.61	2017/07/03
RDD-CS	Road Drainage - Chute Structure	Roads - Drainage	No	40	1 576.56	2017/07/03
RDD-KI	Road - Kerb Inlet	Roads - Drainage	No	40	374.73	2012/06/30
RDD-PC2	Concrete Pipe Culvert 600mm diameter	Road Drainage	m	60	434.22	2014/06/30
RDD-PC3	Concrete Pipe Culvert 900mm diameter	Road Drainage	m	60	290.04	2014/06/30
RDD-PC4	Concrete Pipe Culvert 1200mm diameter	Road Drainage	m	60	340.11	2014/06/30
RDD-PC5	Concrete Pipe Culvert 1500mm diameter	Road Drainage	m	60	413.58	2014/06/30

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RDD-PC6	Concrete Pipe Culvert 1800mm diameter	Road Drainage	m	60	488.53	2014/06/30
RDD-SD	Road - Concrete lined Side Drain (sides)	Roads - Drainage	m	40	1 140.06	2012/06/30
RDD-SI	Road Drainage - Inlet and Outlet Structures	Roads - Drainage	No	40	7 712.78	2017/07/03
RDD-SP	Road Drainage - Stone Pitching	Roads - Drainage	m2	40	873.71	2017/07/03
RDD-WW	Road Drainage - Wing Wall	Roads - Drainage	No	40	3 924.65	2017/07/03
RD-ETH	Road Unpaved - Earth (rural)	Roads - Formation	m2	7	92.73	2012/06/30
RDF-FUR-FCAM	Fixed Speed Camera	Road - Furniture	No	10	325 142.81	2013/05/20
RDF-GAB-GALV	Gabions	Road - Furniture	m3	30	1 431.03	2014/06/30
RDF-GAB-PVC	Gabions	Road - Furniture	m3	30	1 477.33	2014/06/30
RDF-GR	Armco or galvanized guard rail	Roads - Furniture	m	10	434.71	2012/06/30
RDF-GRD-STL	Grid Inlet - Steel	Road - Furniture	No	50	4 596.73	2012/06/30
RDF-KB1	Road Furniture - Mountable Kerbs (300mm) and Channel	Roads - Furniture	m	40	374.73	2012/06/30
RD-FM3	Road Formation Low standard	Roads - Formation	m2	30	134.14	2012/11/02
RD-FM4F	Low standard for gravel Flat Terrain 80kph	Roads - Formation	m2	50	134.14	2012/11/02
RDP-ETB	Road Layer - Emulsion Treated Base	Road - Layer	m3	30	849.68	2015/08/11
RDP-PV-LG	Granular Pavement - base & Subbase (< = 300mm), ES1	Roads - Pavement	m2	20	143.41	2012/11/02
RDS-ACM	Asphalt with Highly Modified Binder (SBS etc.)	Roads - Surfacing	m2	15	84.61	2012/06/30
RDS-BB-SC-BW	Brick paving No interlock - Basketweave	Road - Surfacing	m2	15	150.00	2013/03/01
RDS-BB-SC-HB	Brick paving No interlock - Herringbone	Road - Surfacing	m2	15	150.00	2013/03/01
RDS-BB-SC-OT	Brick paving No interlock - Other pattern	Road - Surfacing	m2	15	150.00	2013/03/01
RDS-BB-SC-SB	Brick paving No interlock - Stretcher bond	Road - Surfacing	m2	15	150.00	2013/03/01
RDS-BC-SA-BW	Block Paving Full Interlock - Basket Weave	Road - Surfacing	m2	20	150.00	2013/03/01
RDS-BC-SA-HB	Block Paving Full Interlock - Herringbone	Road - Surfacing	m2	20	150.00	2013/03/01
RDS-BC-SA-OT	Block Paving Full Interlock - Other Pattern	Road - Surfacing	m2	20	150.00	2013/03/01
RDS-BC-SA-SB	Block Paving Full Interlock - Stretcherbond	Road - Surfacing	m2	20	150.00	2013/03/01
RDS-BC-SB-BW	Block paving partial interlock - Basketweave	Road - Surfacing	m2	18	150.00	2013/03/01
RDS-BC-SB-HB	Block paving partial interlock - Herringbone	Road - Surfacing	m2	18	150.00	2013/03/01
RDS-BC-SB-OT	Block paving partial interlock - Other pattern	Road - Surfacing	m2	18	150.00	2013/03/01
RDS-BC-SB-SB	Block paving partial interlock - Stretcher bond	Road - Surfacing	m2	18	150.00	2013/03/01
RDS-BC-SC-OT	Block paving No interlock - Other pattern	Road - Surfacing	m2	15	150.00	2013/03/01
RDS-Brick	Brick Paving - unknown pattern	Road - Surfacing	m2	15	150.00	2013/03/01
RDS-Concrete	Concrete Type Unknown	Road - Surfacing	m3	20	200.00	2013/03/01
RDS-DS-13-6-MB	13mm/6 Mod Binder	Road - Surfacing	m2	13	80.00	2013/03/01
RDS-DS-19-6-BR	19mm/6 Bit Rubber	Road - Surfacing	m2	13	80.00	2013/03/01
RDS-DS-19-9	19mm/9	Road - Surfacing	m2	13	60.00	2013/03/01
RDS-GRV	Unpaved Road Wearing course of selected materials that has been imported & compacted	Roads - Wearing Course	m2	7	119.45	2012/06/30
RDS-INFOGUID	Information and Guidance Signs, Class 1 retro-reflective incl. supports and excavations	Road Signs - Guidance	No	7	1 175.85	2012/06/30
RDS-JCP	Jointed Concrete Pavement	Road - Surfacing	m3	20	200.00	2013/03/01

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RDS-S1	Size unknown	Road - Surfacing	m2	10	40.00	2013/03/01
RDS-SL-13	Slurry 13mm	Road - Surfacing	m2	10	30.00	2013/03/01
RDS-Slurry	Type Unknown	Road - Surfacing	m2	8	30.00	2013/03/01
RDS-SS-13	Single Seal 13mm	Road - Surfacing	m2	10	40.00	2013/03/01
RDS-SS-13-BR	13mm Bit Rubber	Road - Surfacing	m2	11	60.00	2013/03/01
RDS-SS-13-SL	13mm & slurry (Thin Cape Seal)	Road - Surfacing	m2	10	60.00	2013/03/01
RDS-SS-19-SL	19mm & slurry (Cape Seal)	Road - Surfacing	m2	15	60.00	2013/03/01
RDS-SS-6	6mm	Road - Surfacing	m2	6	60.00	2013/03/01
RDS-SS-9	9mm	Road - Surfacing	m2	8	60.00	2013/03/01
RDS-ST1	Singe Seal (aggregate size unknown)	Roads - Surfacing	m2	15	21.97	2012/06/30
RDS-ST2	Double seal (aggregate size unknown)	Roads - Surfacing	m2	15	55.21	2012/06/30
RS-PPB	Push Button	Pedestrian Push Button	No	10	2 050.68	2015/07/30
RS-PS1	Traffic Pole Light with Base	Traffic Pole Light with Base	No	20	5 056.92	2015/07/30
RS-PS2	Overhead Traffic Pole with Base	Overhead Traffic Pole with Base	No	20	12 808.82	2015/07/30
RS-RES1	Reservoir small (<10KL)	Reservoirs	ML	50	1 248 994.34	2012/06/30
RS-RSC	Signal Controller	Traffic Signal Controller	No	10	42 029.01	2015/07/30
RS-S1	Traffic Signal Head Type - S1	Traffic Signal Head Type - S1	No	20	4 443.93	2015/07/30
RS-S10	Traffic Signal Head Type - S10	Traffic Signal Head Type - S10	No	20	3 597.18	2015/07/30
RS-S11	Traffic Signal Head Type - S11	Traffic Signal Head Type - S11	No	20	3 394.44	2015/07/30
RS-S2	Traffic Signal Head Type - S2	Traffic Signal Head Type - S2	No	20	4 443.93	2015/07/30
RS-S3	Traffic Signal Head Type - S3	Traffic Signal Head Type - S3	No	20	4 443.93	2015/07/30
RS-S4	Traffic Signal Head Type - S4	Traffic Signal Head Type - S4	No	20	4 443.93	2015/07/30
RS-S5	Traffic Signal Head Type - S5	Traffic Signal Head Type - S5	No	20	5 347.92	2015/07/30
RS-S6	Traffic Signal Head Type - S6	Traffic Signal Head Type - S6	No	20	5 347.92	2015/07/30
RS-S7	Traffic Signal Head Type - S7	Traffic Signal Head Type - S7	No	20	5 347.92	2015/07/30
RS-S8	Traffic Signal Head Type - S8	Traffic Signal Head Type - S8	No	20	6 245.94	2015/07/30
RS-S9	Traffic Signal Head Type - S9	Traffic Signal Head Type - S9	No	20	6 245.94	2015/07/30
SF-HDSURF	Sport Fields, Hard Surfaces	Sports Fields	m2	20	230.05	2015/07/22
SF-SC	Squash Court Surface	Sports Fields	m2	25	1 596.10	2015/08/11
SF-SFFU	Sports equipment - Practice Net/Goal Post	Sports Fields	No	7	523.35	2012/06/30
SF-SFSF	Sports Fields, Grass Fields	Sports Fields	m2	25	43.18	2012/06/30
SG-G22B	Guidance Sign - Police Station Direction	Road Signs - Guidance	No	7	1 175.85	2012/06/30
SG-G42A	Guidance Sign - Danger Plate (Right)	Road Signs - Guidance	No	7	1 256.72	2012/06/30
SG-G42B	Guidance Sign - Danger Plate (Left)	Road Signs - Guidance	No	7	1 256.72	2012/06/30
SG-GL2	Regulatory Sign - Street Name	Road Signs - Regulatory	No	7	1 256.72	2012/06/30
SG-R1	Regulatory Sign - Stop	Road Signs - Regulatory	No	7	1 175.85	2012/06/30
SG-R14	Regulatory Sign - Speed Limit	Road Signs - Regulatory	No	7	1 175.85	2012/06/30
SG-R14.2	Regulatory Sign - Speed Limit 80	Road Signs - Regulatory	No	7	1 175.85	2012/06/30
SG-R14.3	Regulatory Sign - Speed Limit 60	Road Signs - Regulatory	No	7	1 175.85	2012/06/30
SG-R15	Regulatory Sign - Road Closed	Road Signs - Regulatory	No	7	1 175.85	2012/06/30

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SG-R18A	Regulatory Sign - Proceed Left Only	Road Signs - Regulatory	No	7	1 175.85	2012/06/30
SG-R19A	Regulatory Sign - Turn Right	Road Signs - Regulatory	No	7	1 175.85	2012/06/30
SG-R2	Regulatory Sign - Yield	Road Signs - Regulatory	No	7	1 371.91	2012/06/30
SG-W1	Warning Sign - Cross Roads	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W17A	Warning Sign - Pedestrians	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W17B	Warning Sign - Pedestrian Crossing	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W18	Warning Sign - Children	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W2	Warning Sign - T-Junction	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W24	Warning Sign - Drift	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W27	Warning Sign - Gate	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W32A2	Warning Sign - Steep Descent To Left	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W332	Warning Sign - Traffic Calming	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W41	Warning Sign - Hazard Warning	Road Signs - Warning	No	7	1 371.91	2012/06/30
SG-W9A	Warning Sign - Gentle Curve To Right	Road Signs - Warning	No	7	1 371.91	2012/06/30
SH-SS	Supporting Structure	Shelter	m2	20	443.67	2012/06/30
SP-PNL1	Solar Panel, 180W	Electrical	No	30	4 245.90	2013/02/13
SS-TG5	Steel Stands	Stands	no	10	29 575.39	2015/07/31
STEELWK	Fabricated Steelwork	Steelwork	T	30	92 011.85	2013/08/20
SW-1.7BIN	1.7m3 Skip Waste Container	Solid Waste	No	20	11 498.58	2015/12/01
SW-11.0BIN	11m3 Skip Waste Container	Solid Waste	No	20	24 417.06	2015/12/01
SW-4.0BIN	4m3 Skip Waste Container	Solid Waste	No	20	14 082.28	2015/12/01
SW-5.5BIN	5.5m3 Skip Waste Container	Solid Waste	No	20	17 441.08	2015/12/01
SW-6.0BIN	6m3 Skip Waste Container	Solid Waste	No	20	18 732.93	2015/12/01
SW-9.0BIN	9m3 Skip Waste Container	Solid Waste	No	20	22 608.47	2015/12/01
SW-MC	Material Cover (soil/backfill/landfills)	Solid Waste	m2	55	105.97	2012/06/14
TK-RC30	Reinforced concrete foundation 30MPa	Tanks	m2	50	798.65	2012/06/30
TK-SP50	Pipework associated with elevated tank - 50mm Steel	Tanks	m	20	169.36	2013/06/30
TK-SPT	Septic Tank, Concrete	Tanks	No	50	23 326.95	2013/05/16
TK-ST	Pressed Steel tank	Tanks	KL	30	912.88	2012/11/15
TK-T1	Plastic Water Tank - 500 Litres	Tanks	No	15	1 124.25	2013/03/01
TK-T2	Plastic Water Tank - 1 000 Litres	Tanks	No	15	1 590.78	2013/03/01
TK-T3	Plastic Water Tank - 1 500 Litres	Tanks	No	15	1 688.64	2013/03/01
TK-T4	Plastic Water Tank - 2 500 Litres	Tanks	No	15	2 642.20	2013/03/01
TK-T5	Plastic Water Tank - 5 000 Litres	Tanks	No	15	3 958.75	2013/03/01
TK-T6	Plastic Water Tank - 5 500 Litres	Tanks	No	15	5 155.82	2013/03/01
TK-T7	Plastic Water Tank - 10 000 Litres	Tanks	No	15	9 515.12	2013/03/01
TK-T8	Plastic Water Tank - 15 000 Litres	Tanks	No	15	19 384.13	2013/03/01
TK-T9	Plastic Water Tank - 20 000 Litres	Tanks	No	15	33 404.19	2013/03/01
TK-TS1	Water Tank Stand - 1.5m high for 5 000L	Tanks	No	15	7 389.52	2013/03/01
TK-TS10	Water Tank Stand - 9m high for 10 000L	Tanks	No	15	23 538.60	2013/03/01

SubType UniqueCode	SubTypeDefinition	TypeDescription	UoM	EUL	CapitalRate	ValuationDate
TK-TS2	Water Tank Stand - 1.5m high for 10 000L	Tanks	No	15	12 605.66	2013/03/01
TK-TS3	Water Tank Stand - 3m high for 5 000L	Tanks	No	15	9 988.49	2013/03/01
TK-TS4	Water Tank Stand - 3m high for 10 000L	Tanks	No	15	14 711.91	2013/03/01
TK-TS5	Water Tank Stand - 4.5m high for 5 000L	Tanks	No	15	11 833.02	2013/03/01
TK-TS6	Water Tank Stand - 4.5m high for 10 000L	Tanks	No	15	16 003.43	2013/03/01
TK-TS7	Water Tank Stand - 6m high for 5 000L	Tanks	No	15	12 994.82	2013/03/01
TK-TS8	Water Tank Stand - 6m high for 10 000L	Tanks	No	15	18 065.30	2013/03/01
TK-TS9	Water Tank Stand - 9m high for 5 000L	Tanks	No	15	17 725.07	2013/03/01
TK-WCS	Water Containment Structure	Tanks	m2	30	798.65	2012/06/30
TW-STR	Tower Structure	Tower	m	50	1 292.92	2012/06/30
VC-VCBC	Chamber - Cast In-Situ (Square/Rectangular)	Chambers	m3	20	938.36	2012/06/30
VC-VCCC	Chamber - Cast In-Situ (Square/Rectangular)	Chambers	m3	20	1 028.95	2012/06/30
WA-CST	WTW - Chemical storage tank	Tanks	No	15	5 766.88	2013/03/01
WA-DPIP	WTW-Dosing pipework	Pipework	m	20	41.46	2013/04/15
WA-ELECT	WTW-Motor Control Centre	WTW	No	15	17 278.50	2012/06/30
WA-FH	Fire Hydrant	Water - Equipment	No	10	1 492.92	2013/02/26
WA-FTANK	WTW - Filtration tank	Tanks	No	15	5 766.88	2013/03/01
WA-LIN1	Pond/Dam Lining Concrete	Lining	m2	80	1 131.75	2012/06/30
WA-LIN2	Pond/Dam Lining material	Lining	m2	50	566.73	2012/06/14
WA-PLE	Pond Lined, Earth	Lining	m2	50	146.06	2012/06/30
WA-PUM5.5	Water Pump (5.5Kw)	Pumps	No	10	11 569.68	2012/12/01
WA-SEDTF	WTW - Sedimentation tank, plastic	Tanks	No	15	5 766.88	2013/03/01
WA-STLGR	Galvanized Steel Gratings - 2.4 x 1.2m panel	WTW	No	30	5 174.00	2012/06/30
WA-STR	WTW-Chemical stirrer	WTW	No	20	1 429.40	2012/06/30
WA-SURGT	WTW - Surge tank	Tanks	No	15	5 766.88	2013/03/01
WA-TRG1	Trough Corrugated Iron, half circle	Water Feature	m2	15	173.46	2012/06/30
WB-CB1	Concrete Bin	Concrete Bin.pdf	No	4	1 126.96	2015/07/30
WF-SFSP	Swimming pool/Tidal pool	Water Feature	m2	30	13 070.10	2012/06/30
WF-WF	Water Feature/Fountain	Water Feature	No	10	9 319.25	2015/07/23
WS-WS	Windsock	Windsock	No	10	387.10	2015/08/07
WW-CDP	Pump Chlorine dosing	Pumps	No	10	21 398.85	2013/02/27
WW-CLACV	Clarifier civil structure	Tanks	No	30	330 953.31	2012/06/30
WW-DAMW	Earthworks - general excavations & mass	Earthworks	m3	50	318.15	2012/01/13
WW-INLCV	Inlet Works Civil Structure	Inlet works	m2	30	4 626.30	2012/06/30
WW-MET	Flowmeter	Meter - Water	No	20	10 079.13	2012/03/01
WW-PLG	Pond lining, geosynthetic	Lining	m2	80	51.44	2012/06/30
WW-POND	Pond unlined/natural (bentonite)	Lining	m2	30	94.61	2012/06/30
WW-PUM02.2	Sewerage Pump (2.2kW)	Pumps	No	10	10 049.18	2012/12/01
WW-RECP	Pump Recycle	Pumps	No	10	20 850.54	2013/02/27
WW-SCREW	Screw Conveyor	WTW	No	10	48 827.90	2015/12/03

SubType UniqueCode	SubTypeDefinition	TypeDescription	UoM	EUL	CapitalRate	ValuationDate
WW-SCRNS	Inlet works Screens	Inlet works	No	30	14 454.20	2013/06/30
WW-WW12	1.2 m Wooden Wall/Wooden Fence	Wooden Wall/Wooden Fence	m	7	515.13	2015/08/01
WW-WW18	1.8 m Wooden Wall/Wooden Fence	Wooden Wall/Wooden Fence	m	7	594.36	2015/08/01

**For valuation purposes the EUL of water meters have been converted into the following units of consumption:**

Tariff	EUL (Years)	EUL (Units)
Meters – Residential	10	2,776
Meters – Business	10	7,306

**Annexure C.1: Expected Useful Life (EUL) of PPE – Buildings and Other Assets**

The following is a list of Buildings and Other assets, showing the expected useful life in years:

Asset Class	Group	EUL (Years)
Office Equipment	Cleaning Equipment	5
	Kitchen Equipment	5
	Audio Visual Equipment	3
	Office Equipment - Other	5
Computer Equipment	Computer hardware – Desktop	5
	Computer hardware – Laptop	5
	Network Equipment	5
	Computer Equipment - Other	5
Furniture	Chairs	7
	Tables and Desks	7
	Cabinets and Other	7
	Furniture and Fittings - Other	7
Zoo Animals	As obtained from Animal Diversity Website ( <a href="https://animaldiversity.org">https://animaldiversity.org</a> )	
Emergency Equipment	Fire Hoses	5
	Emergency Lights	5
	Fire-fighting equipment Other	15
Motor Vehicles	Fire engines	20
	Busses and Minibus	15
	Graders	10
	Tractors	10
	Tippers	10
	Motor Vehicles	5
	Trucks and light delivery vehicles	10
	Tankers	10
	Earth removing	10
	Motor Cycles	5
Plant and Equipment	Mechanical Horses	10
	Lawnmowers	2
	Compressors	5
	Laboratory Equipment	5
	Radio Equipment	5
	Fire Arms	5
	Garden Equipment	5
	Medical Equipment	5
	Sports Equipment	5
	Musical Instruments	20
	Telecommunication Equipment	5
	Communication Equipment	5
Plant and Equipment - Other	5	
Buildings	Complete Building	60
	Hawker Facilities	30

**Annexure C.2: Residual Values**



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**Below is a summary of the residual value of the different asset classes.**

<b>Asset Class</b>	<b>Residual Value</b>
Land and buildings	R0
Infrastructure assets	R0
Community assets	R0
Fire arms	R0
Tools, plant and equipment	R0
Furniture and office equipment	R0
Capitilised leased equipment	R0
Capitilised leased vehicles	R0
Motor vehicles	5% of Cost
Heritage assets	R0
Intangible assets	R0
Investment properties	R0

## Annexure D: Condition Grading Scale

The Generic Condition Grading Scale is adopted by Council:

Grade	Description	Detailed description	Indicative EUL*
1	Very good <i>As new</i>	Sound structure, well maintained. Only normal maintenance required. New, or "as good as new". Has recently been renovated, OR Not Applicable.	71 - 100% EUL
2	Good <i>Routine maintenance</i>	Serves needs but minor deterioration (< 5%). Minor maintenance required. Requires minor maintenance. Touching up will restore to "as good as new". Deterioration has been caused by normal wear and tear.	46 - 70% EUL
2.5	Good <i>Specific repair</i>	Requires maintenance to prevent the asset getting any worse. Wear and tear is beginning to show and the asset is deteriorating.	36 - 45% EUL
3	Fair <i>Needs repair work soon</i>	Non-emergency repair. Damaged areas, but not a health / safety risk. It is tolerable but not for much longer. Marginal, clearly evident deterioration (10-20%). Significant maintenance required.	21 - 35% EUL
3.5	Fair <i>Significant repair work</i>	Has deteriorated a substantially and needs repairing as soon as possible. Significant sections damaged. Could be dangerous.	16 - 20% EUL
4	Poor <i>Partly replace</i>	Getting beyond repair, some parts needs replacing immediately. Is also intolerable and a major problem. Could be dangerous! However, not yet affecting adjacent elements. Significant deterioration of structure and/or appearance and impairment of functionality (20-40%). Significant renewal/upgrade required.	11 - 15% EUL
4.5	Poor <i>Substantial replacement</i>	Replace substantial sections. It is beyond repair! Definitely could be dangerous if not attended to soon! Affecting adjacent elements.	1 - 10% EUL
5	Very poor <i>Condemned</i>	Unsound, failed, needs reconstruction / replacement (> 50% needs replacement). What's left should be condemned. It is of no use. It is seriously affecting adjacent elements. It is dangerous.	0% EUL

**Source:**

GUIDELINES FOR INFRASTRUCTURE ASSET MANAGEMENT IN LOCAL GOVERNMENT 2006 – 2009

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**Annexure E: Paraphrase of Section 14 of the MFMA 56 of 2003**

A municipality may not dispose of any capital asset required to provide a minimum level of basic municipal services.

A municipality may dispose of any other capital asset, provided that:

- The Council, in a meeting open to the public, has first determined that the asset is not required to provide a minimum level of basic municipal services, and
- The Council has considered the fair market value of the asset and the economic and community value to be received in exchange for the asset.

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**Annexure F: GRAP 13 Definitions of Finance Leases****A lease must meet one of the following criteria to be classified as a finance lease:**

- the lease transfers ownership of the asset to the lessee by the end of the lease term,
- the lessee has the option to purchase the asset at a price which is expected to be sufficiently lower than the fair value at the date the option becomes exercisable for it to be reasonably certain, at the inception of the lease, that the option will be exercised,
- the lease term is for the major part of the economic life of the asset even if title is not transferred,
- at the inception of the lease the present value of the minimum lease payments amounts to at least substantially all of the fair value of the leased asset,
- the leased assets are of a such a specialised nature that only the lessee can use them without major modifications, and
- the leased assets cannot easily be replaced by another asset.
- if the lessee can cancel the lease, the lessor's losses associated with the cancellation are borne by the lessee,
- gains or losses from the fluctuation in the fair value of the residual accrue to the lessee (for example, in the form of a rent rebate equalling most of the sales proceeds at the end of the lease), and
- the lessee has the ability to continue the lease for a secondary period at a rent that is substantially lower than market rent.

**Annexure G: Capitalisation Certificate**

<b>ASSET CAPITALISATION CERTIFICATE</b>		
Department		* essential information
Project name as per municipality's budget		
Contract number (as per tender / procurement)		
General description of scope of work		
Contractor/ Supplier		
Consultant name and contact details		
Project amount <small>(per vote number if more than one source of funding)</small>	<b>VOTE number</b>	<b>Amount</b>
	<b>Total</b>	
Budget type (Y/N)	CAPEX (indicate funding source, eg MIG, revenue, loan)	
	OPEX	
	TRANSFER / DONATED	
Location where implemented <small>suburb</small> <small>group assets - indicate region / suburb</small>		
Date construction commenced		
Date of practical completion		*
Date available for use by the municipality <small>ie date commissioned, can be the same as practical completion date</small>		*
Map attached indicating location / extent <small>(Yes / No)</small>		* essential if linear assets (eg pipes, roads, cables)
Other supporting documents, attached <small>(indicate type/ format)</small> <small>eg handover or completion report, as built data, BOQ etc</small>		
Are as-built drawings and / or completion reports being prepared? (Y/N, when?)		
Other notes / comments:		
<i>Signed</i>		
	<b>Project supervisor / manager</b>	<b>Date</b>
<i>Name</i>		*
<i>Signed</i>		
	<b>Head of Department</b>	<b>Date</b>
<i>Name</i>		*
<i>Signed</i>		
	<b>Chief Financial Officer</b>	<b>Date</b>
<i>Name</i>		*

Page 1

**SCOPE OF WORK SUMMARY**

*where necessary, more than one sheet can be used (for multiple sizes, types of same asset types)*

	<b>Assets</b>	<b>Extent</b>	<b>Unit</b>	<b>Description (size, type)</b>	<b>New (Y/N)</b>	<b>Upgrade (Y/N)</b>	<b>Renewal (Y/N)</b>	<b>Transfer (Y/N)</b>
Roads and Stormwater assets	Road Surface		sq m					
	Road structural layers		sq m					
	Earthworks		sq m					
	Kerbing		m					
	Kerb inlets		No.					
	Bridges		No.					
	Culverts		No.					
	Footpaths		sq m					
	Road signs		No.					
	Storm-water pipes		m					
	Stormwater channels		m					
Storm-water structures		cum						
Solid waste	Cells constructed		sqm					
	Cells rehabilitation		sqm					
	Access roads		sqm					
	Stormwater channels		m					
	Stormwater pipes		m					
	Transfer/ Mini disposal sites		No.					
Water	Bulk water pipes		m					
	Distribution / other pipes		m					
	Hydrants		No.					
	Valves		No.					
	Meters and erf connections		No.					
	Pumps		No.					
	Motors		No.					
	PRV stations		No.					
	Reservoirs		No.					
	Other concrete structures		No.					
Sanitation	Outfall sewers		m					
	Reticulation / other pipes		m					
	Erf Connections		No.					
	Pumps		No.					
	Motors		No.					
	Concrete structures		No.					
Electricity	Cables		m					
	Overhead conductors		m					
	Substations		No.					
	Minisubs		No.					
	Transformers		No.					
	Panels / switchgear		No.					
	Street lighting		m					
	High masts		No.					
<i>If used assets installed, indicate % of EUL left</i>								
General	Buildings		sqm					
	Landscaping		sqm					
Other								

Explanatory notes (if necessary)

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Project Supervisor / manager \_\_\_\_\_

Authorised Person \_\_\_\_\_



**ASSET WRITE OFF FORM**

Type of asset movement to be recorded (indicate with X)

Asset Obsolete/Damaged/Written-Off	<input type="checkbox"/>
Asset to be Written-Off due to Loss (Burglary / Theft)	<input type="checkbox"/>
SAPS Reference no	<input type="text"/>
Loss Register Reference no	<input type="text"/>

BARCODE	DESCRIPTION	MODEL	MAKE	SERIAL / FLEET NO	QUANTITY

Employee (print name): \_\_\_\_\_ Employee no: \_\_\_\_\_

Employee (Signature): \_\_\_\_\_ Date: \_\_\_\_\_

Asset Controller: \_\_\_\_\_ Date: \_\_\_\_\_

General Manager/Executive Director: \_\_\_\_\_ Date: \_\_\_\_\_

Fleet Controller: (if applicable) \_\_\_\_\_ Date: \_\_\_\_\_

ICT Sign-off: (if applicable) \_\_\_\_\_ Date: \_\_\_\_\_

OFFICE USE ONLY - FINANCE	
<b>Date Received:</b>	<b>Date processed:</b>
<b>Received by:</b>	<b>Processed by:</b>
<small>(Please attach copy of register prior to and after adjustment)</small>	
<b>Remarks (Condition of the asset)</b>	

**ASSET DISPOSAL FORM**

**FROM**      LOCATION: \_\_\_\_\_      LOCATION BARCODE: \_\_\_\_\_  
                  DIRECTORATE: \_\_\_\_\_      COST CENTRE: \_\_\_\_\_

**REASON FOR DISPOSAL**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

RETURNED FORM NUMBER \_\_\_\_\_

BARCODE	DESCRIPTION	MODEL	MAKE	SERIAL NUMBER	QUANTITY

Employee (print name): \_\_\_\_\_      Employee no: \_\_\_\_\_

Employee (Signature): \_\_\_\_\_      Date: \_\_\_\_\_

Asset Controller: \_\_\_\_\_      Date: \_\_\_\_\_

General Manager/Executive Director: \_\_\_\_\_      Date: \_\_\_\_\_

OFFICE USE ONLY - FINANCE	
<b>Date Received:</b>	<b>Date processed:</b>
<b>Received by:</b>	<b>Processed by:</b>
<small>(Please attach copy of register prior to and after adjustment)</small>	
<b>Remarks:</b>	



**ASSET TRANSFER FORM**

**FROM**      LOCATION: \_\_\_\_\_      LOCATION BARCODE: \_\_\_\_\_  
                  DIRECTORATE: \_\_\_\_\_      COST CENTRE NO: \_\_\_\_\_

**TO**              LOCATION: \_\_\_\_\_      LOCATION BARCODE: \_\_\_\_\_  
                  DIRECTORATE: \_\_\_\_\_      COST CENTRE NO: \_\_\_\_\_

BARCODE	DESCRIPTION	MODEL	MAKE	SERIAL NUMBER	QUANTITY

Employee (print name): \_\_\_\_\_      Employee no: \_\_\_\_\_  
 Employee (Signature): \_\_\_\_\_      Date: \_\_\_\_\_  
 Asset Controller: \_\_\_\_\_      Date: \_\_\_\_\_  
 General Manager/Executive Director: \_\_\_\_\_      Date: \_\_\_\_\_

OFFICE USE ONLY – FINANCE	
<b>Date Received:</b>	<b>Date processed:</b>
<b>Received by:</b>	<b>Processed by:</b>
<small>(Please attach copy of register prior to and after adjustment)</small>	
<b>Remarks:</b>	

**APPROVAL FOR USE OF PRIVATE ASSETS**

LOCATION : \_\_\_\_\_

LOCATION BARCODE : \_\_\_\_\_

DIRECTORATE : \_\_\_\_\_

DESCRIPTION	SERIAL NUMBER	MODEL	MAKE	QUANTITY

I hereby declare that the assets listed above:

- a) Are NOT the property of the Mangaung Metropolitan Municipality;
- b) Are utilised by the Official in the execution of his/her official duties; and
- c) Are clearly distinguishable from other, similar assets owned by the Municipality.

Employee (print name) : \_\_\_\_\_ Employee no: \_\_\_\_\_

Employee (Signature) : \_\_\_\_\_ Date : \_\_\_\_\_

Asset Controller : \_\_\_\_\_ Date : \_\_\_\_\_

General Manager : \_\_\_\_\_ Date : \_\_\_\_\_

Head of Department : \_\_\_\_\_ Date : \_\_\_\_\_

**OFFICE USE ONLY - FINANCE**

**Date Received:** \_\_\_\_\_ **Date processed:** \_\_\_\_\_

**Received by:** \_\_\_\_\_ **Processed by:** \_\_\_\_\_

(Please attach copy of register prior to and after adjustment)

**Remarks:**

**Annexure I: Project Status Control Certificate (PSCC)**



PSC FORM

Project Status Control <sup>PSC</sup>

# Certificate

Revision 2  
06 February 2019

<b>PROJECT STATUS</b> WIP <input type="checkbox"/> Completed <input type="checkbox"/>	<b>Q1</b> Jul – Sept <input type="checkbox"/>	<b>Q2</b> Oct – Dec <input type="checkbox"/>	<b>Q3</b> Jan – Mar <input type="checkbox"/>	<b>Q4</b> Apr – Jun <input type="checkbox"/>
---	---	--	--	--

Select if Project is WIP or Completed and in which Quarter progress is reported

<b>Project Name</b>	Insert Project Name as per Municipalities Budget	<b>Contract Number</b>	Contract #
<b>Project Number</b>	Insert Project Number	<b>Construction Start</b>	Select Date
<b>Description</b>	Insert Project Description Here	<b>Practical Completion</b>	Select Date
<b>MMM Project Manager</b>	Insert Name of MMM PM	<b>Expected Completion</b>	Select Date
<b>PSP / Consultant</b>	Professional Service Provider Name	<b>Contact Person</b>	Responsible Person Name
<b>Contractor</b>	Contractor	<b>Contact Person</b>	Responsible Person Name

DOCUMENTATION RECEIVED (AS PER POLICY)		Date	Can Proceed to Capitalisation Process?				
<i>In the absence of all or any of these documents, the relevant department have to complete and submit a Capitalisation Certificate in the prescribed format (Annexure E). The existence of these assets must be confirmed by the Asset Management Division prior to capitalisation.</i>	Final Completion Certificates	<input type="checkbox"/> Click or tap to enter a date.	<table border="1"> <tr> <td><b>Yes</b></td> <td><b>No</b></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<b>Yes</b>	<b>No</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Yes</b>	<b>No</b>					
	<input type="checkbox"/>	<input type="checkbox"/>					
	Completion Reports	<input type="checkbox"/> Click or tap to enter a date.					
	As-Built drawings	<input type="checkbox"/> Click or tap to enter a date.					
Final adjusted BOQ (PC)	<input type="checkbox"/> Click or tap to enter a date.						
Final PSP Account (FA)	<input type="checkbox"/> Click or tap to enter a date.						

Final/Interim PSP Payment Certificate till claim _____	<input type="checkbox"/> <b>Amount</b> Amount
Final/Interim Contractor Payment Certificate - Value of work completed / certified till claim _____	<input type="checkbox"/> <b>Amount</b> Amount

*NB – All Amounts to be VAT Exclusive*

PROJECT MILESTONES	Yes	No	Comment
Has the Project or Phases of the project reached practical completion?	<input type="checkbox"/>	<input type="checkbox"/>	Click or tap here to enter text.
If Yes, is a Practical Completion Certificate submitted?	<input type="checkbox"/>	<input type="checkbox"/>	
Is the total costs applicable to phase available?	<input type="checkbox"/>	<input type="checkbox"/>	
Is the Asset ready for use?	<input type="checkbox"/>	<input type="checkbox"/>	
Is the project handed over to the Municipality?	<input type="checkbox"/>	<input type="checkbox"/>	

CORRECTIVE ACTION DECISIONS / ESCALATIONS		Issue Resolved / Date
Issue 1    Issue Log	<input type="checkbox"/>	Click or tap to enter a date.
Issue 2    Issue Log	<input type="checkbox"/>	Click or tap to enter a date.
Issue 3    Issue Log	<input type="checkbox"/>	Click or tap to enter a date.

Designation	Responsible Person	Signature	Date
<b>Consulting Engineer</b>	Responsible Person Name	_____	Date
<b>MMM Project Manager</b>	Responsible Person Name	_____	Date

**Annexure J: As-Built Drawings - Minimum Requirements**

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## **FORMATS FOR SUBMISSION**

The as-built drawings / information must be submitted in the following formats:

- (i) 2x hard copy As-Built Drawings printed to the appropriate scale,
- (ii) one set of PDF drawings which should be an electronic replication of the hardcopy drawing and
- (iii) an electronic copy of the AutoCAD or similar computer aided drawing software package in their native format,
- (iv) formats in dwg, dxf, drg file format, that are georeferenced in WGS84 and with the appropriate geospatial projection

## **MINIMUM STANDARDS FOR AS-BUILT DRAWINGS**

The as-built drawings must clearly indicate the following:

### **Site Development Plan**

All drawings must be submitted in the below prescribed format for incorporation into the MMM Overall Spatial Development Plan.

### **Cadastral**

1. Surveyor General Cadastral clearly showing erf boundaries & erf numbers – this can be obtained from MMM at project inception to ensure the raw base drawing is correctly georeferenced
2. Street Names and Suburb names of surrounding area in relation to the project extents

### **Locality**

1. North Sign
2. Grid lines at 100m x 100m showing x-coordinate & y-coordinate
3. A note on the drawing's geospatial projection and latitude and longitude positioning
4. A reference point on a locality map indicating the approximate position of the project extents in relation to the larger Mangaung area

### **Engineering Standards**

1. An appropriate drawing scale must be selected for any drawings printed / pdf. However, only survey points, coordinates and geospatial information will be used / relied on.
2. Key Points must be clearly indicated, such as:

- 
- a. For all linear features such as roads, pipelines, electricity, ducts, sidewalks etc, a point must be clearly marked with a leader or arrow including the text “START” and/or “END”
  - b. For all point features such as pump stations, buildings, valves, etc., a point must be clearly marked with a leader or arrow indicating the extent of the project for example: “Proposed Pump station” or “As-built Pump station” or “Existing Pump station”,
  3. The drawing must be free from any unnecessary CAD features such as construction lines, unrelated cadastral information, text, points, lines, polygons that have no direct bearing on the PROPOSED or EXISTING works
  4. The drawing requires a legend clearly indicating what the symbology colours represented on the drawing.
  5. For Pipes:
    - a. Type, Diameter, Class and Strength of pipe must be indicated on the drawing, or alternatively if all pipes in the drawing are the same – it must be displayed in the attribute table
    - b. Where manholes are constructed, the manhole cover level and pipe invert level must be displayed at each manhole
  6. For Roads:
    - a. Chainages in metres

Version	Author	Date	Pages/Sections affected	Remarks
2	AM	2012/08/10	Annexure A	AG Exception 178
			Page 10	Heritage assets
			Page 30	Investment Properties
3	AM	2013/06/07	GRAP 100	Assets Held for sale
			GRAP 21 & 26	Impairment
			GRAP 17 & 103	Zoo Animals PPE
			GRAP 31	
			MFMA Circular 58	Revaluation reserve
4	AM	2014/06/08	Page 12, 4.3	Insert R&R of users
			Page 12, 4.4	Insert R&R of Asset Controllers
			Page 28, 12.1	Use of Capitalisation Certificate
			Page 62, Annexure A	Revised EUL
			Page 159, Annexure E	Capitalisation Certificate
5	AM	2015/07/30	Page 9 Par. 3.3	“Supply Chain Management” added to heading
			Page 10, 61 Par. 4.1.1, 4.1.2, and 26.6	“Asset return form” replaced by “Asset Handover form”
			Page 10 Par 4.2.2	“In writing“added to first sentence
			Page 10, 12 Par 4.2.2, 4.4	“Nominated” replaced by “Appointed”
			Page 161 Annexure F	Standard Forms Added
6	AM	2017/05/17	Par 7.1 Page 18	“Assets held for Sale” Removed - GRAP 100 Revised
			Par 13.2 Page 30	mSCOA definition of refurbishment added
			Par 17.2 Page 40	“Donations” Added
7	AM		Page 17, 18	Insert of Water meter valuation
			Page 28, 29, 30, 31	Insert “Capitalization criteria”
			Page 33	Insert of Retention
			Page 38	Insert “Minimum RUL”
			Page 67	Insert Annexure A: Asset Hierarchy
			Page 68	Insert Annexure B1: Historic Unit Rates
			Page 160	Insert Annexure B2: Current Unit Rates

Version	Author	Date	Pages/Sections affected	Remarks
			Page 176	Insert Annexure C.1: Expected Useful Life (EUL) of PPE – Buildings and Other Assets
			Page 177	Insert Annexure C.2: Residual Values
			Page 178	Rename Annexure B (ver4) to D
			Page 179	Rename Annexure C (ver4) to E
			Page 180	Rename Annexure D (ver4) to F
			Page 181	Rename Annexure E (ver4) to G
			Page 183	Rename Annexure G (ver4) to H
			Page 187	Insert Annexure I: “Project Stage Control Certificate”
			Page 188	Insert Annexure J: “As-Built drawings – Minimum requirements”