Description		Unit	Quantity	Rate	Amount
SECTION NO.	<u>01</u>				
BILL NO.1					
PRELIMINARY	& GENERAL				
Fixed Charge I	tems_				
Contractual Red	quirements				
Establish Facil					
Facilities for En					
a) Supply and e	rect name board on site				
	ntractor and Engineers				
	Storage Sheds				
(b) Workshop					
• /	Latrine Facilities				
(d) Tools & E					
. ,	oply, electricity and communication				
	th Water on Site				
(g) Access to	Site				
(h) Plant					
(i) Setting out					
(j) Laboratries	and Testing				
Once off Contr					
Site Establishm					
-	fety Requirements & Induction				
Environmental I	•				
Guarantee and					
	shall make allowance within the tender cost				
	control, working in restrcited space and ne site for the duration of the contract.				
Insurance					
Protection of W	orks				
	location of Services				
	arge Obligations				
Operations Mar					
	mmissioning and Commission				
Removal of Site	Establishment				
Time Related I	tems				
a) Contractual F	Requirements				
Facilities for C	<u>ONTRACTOR</u>				
Operate and ma	aintain facilities on site for the duration of the				
	duration of Construction				
	ad Office Overhead Costs				
MAINTENANCI	E AND SERVICE				
	nonths maintenance and service period,				
	onthly inspections, on all plant and equipment				
under this contr					

The electrical Subcontractor are required to give a twelve (12) month guarantee to replace, free of charge, any portion of the electrical installation in which any manufacturing defects may develop during that period, such period to commence from the date of handover of the complete electrical installation.

The electrical Subcontractor shall in the course of the maintenance period repair or replace defective parts if required and shall use only genuine standard parts produced by the manufacturer of the original part.

Allow for a 12 months maintenance and service period, carried out in monthly inspections, on all plant and equipment under this contract.

The Mechanical Subcontractor are required to give a twelve (12) month guarantee to replace, free of charge, any portion of the electrical installation in which any manufacturing defects may develop during that period, such period to commence from the date of handover of the complete electrical installation.

The Mechanical Subcontractor shall in the course of the maintenance period repair or replace defective parts if required and shall use only genuine standard parts produced by the manufacturer of the original part.

## OCCUPATIONAL HEALTH AND SAFETY

Without limiting the generality of the provisions of clause 7.0 of the Principal Building Agreement, the Contractors attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of Occupational Health and Safety Act, 1993 in which it is specifically stated and the Employer shall ensure that the Contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor is referred to the occupational Health and Safety of Construction attached to this document and the contractor shall price for compliance with the Act and the regulations and the provisions of the aforementioned Health and Safety Specification.

The Legal requirements contemplated in Construction Regulation CR (1) (g)"A client must ensure that potential principal contractors submitting tenders, have made adequate provision for the cost of health and safety measures"And CR 5(1) (h)"A Client must ensure that the principal contractor to be appointed has the necessary competencies and resource to carry out the construction work safety"Shall apply and failure to price the Health and Safety items will result in the tender being deemed non - responsiveThe contractors attention is further drawn to Section 41 of the OCCUPATIONAL HEALTH AND SAFETY ACT NO.85 1993 : THIS ACT NOT AFFECTED BY AGREEMENTSubject to the provisions of section 10 (4) and 37 (2), a provision of this Act or a condition specified in any notice or direction issued there under or subjects to which exemption was granted to any person under section 40, shall not be affected to any condition of any agreement whether such agreement was Allow for the necessary Workman's Compensation Fund or FEM contributions for the duration of the project with and including renewals F:..... V:......

Т:....

Allow the preparation and approvals of the project - specific H & S and File (CR 7 (1) (a) F:	
V: T:	
Allow for the implementation and maintenance of project -	
specific H & S Plan and File (CR 7) F:	
V: T:	
Allow for the appointment of a Full -Time Qualified	
Construction Health and Safety Officer to assist in the	
control of all health and safety ascpects on site as per CR8	
(5) F: V: T:	
Allow for provision of Basic Emergency preparedness and	
Response equipment and minimum Level 2 First Aider/s	
F: T:	
Dravida, auguly and maintain for each ampleyos for the	
Provide, supply and maintain for each employee for the	
following SANS approved personal Protective equipment and	
clothing (Including Hard Hat) as per the site requirement - Specific risk assessment:	
Specific fisk assessment. Security Access Control Cards	
Overall/work suit (100% Cotton) F: V:	
High Visibility reflecting vest and /or bibs F	
V:T:	
Safety boot/shoes (Steel - toes) F: V:	
Safety Gumboot (Steel - toes) F:	
V:	
Ear Plugs/Muffs F:V:V	
T:	
Dust Masks (at least FF2 type) F:	
V:	
Respirators F: V:	
T:	
Safety goggles F: V:	
T:	
Temporary handrails,toe boards,etc. other than for access	
scaffoldings	
FT	
Personal fall arrest and rescue equipment with and including	
life lines and associated equipment's	
FT	
SANS approved safety netting (orange colour minimum 1,2	
meter high)	
FT	
Temporary warning signs and symbols	
FT	
Road traffic signs in terms of the South African Road Traffic	
signs Manual	
FT	
General Compliance with Environmental Management Plan	
SECTION NO.01 TOTAL	

# EXTERNAL WORKS

Description	Unit	Quantity	Rate	Amount
SECTION NO. 02				
EXTERNAL WORKS				
BILL NO. 1				
DEMOLITION				
(CPAP WORK GROUP NO. 102 UNLESS OTHERWISE STATED)				
PREAMBLES				
The Tenderer is referred to the relevant clauses in the				
separate documents General Preambles for Trades				
(2017 Edition).				
SUPPLEMENTARY PREAMBLES				
Working at Heights:				
Tenderers are to note that the work to be undertaken				
may require all necessary scaffolding, due to the heights				
of the structures to be constructed/ altered. Tenderers				
are to therefore price accordingly as rates will be deemed to include for same and No further claims in				
regard to all necessary scaffolding in the completion of				
the scope of works will be entertained.				
Labour Intensive				
Tenderers are to note well that specific items within				
these Bills of Quantities have been designated as				
LABOUR INTENSIVE by the addition of the				
aforementioned words in uppercase at the end of the				
description for the said item. Where items have been designated as being LABOUR INTENSIVE as described,				
pricing shall be deemed to include for the carrying out to				
completion of said item on site by means and methods				
that rely predominantly on manual labour. As such, no				
claims shall be entertained regarding any additional time				
or monetary costs incurred by the use of LABOUR				
INTENSIVE methods. Further, the Contractor is to note				
that contravention of the above i.e. use of mechanised				
systems to carry out LABOUR INTENSIVE work as				
hereinafter designated, will viewed and dealt with in an extremely serious light by the Client, as it remains a				
national imperative to develop, employ and provide skills				
through the Extended Public Works Programme.				
Damages to existing finishes, etc				
The Contractor will be held responsible for all damage				
however caused, to existing finishes and fittings etc. and				
he must make good all damage at his own expense to the approval of the Principal Agent.				
Breaking down, demolition and alteration activities and				
tasks, hacking off of existing plaster, etc. is to be				
executed with care so as to prevent damage to				
remaining floor and wall surfaces and finishes (where				
these are to be retained). Tenders will be deemed to				
include allowance for any necessary protection of				
existing surfaces and structures as may be necessary to				
effect the above, as the cost of repairing damage to				

existing surfaces and structures will be solely for the Contractors account.

#### **Responsibility for site**

The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2003, all local by-laws, all user client regulations, and all Client (National Department of Public Works) regulations and procedures. Bidders are therefore urged to study all available material and to investigate fully the site and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above.

Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

#### **Explosives**

No explosives whatsoever may be used for demolition purposes unless otherwise stated

### <u>General</u>

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent

Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing.

Prices for breaking down and removal of brick walls is deemed to include for plaster and/or tile finishes and/or cladding of any type on walls.

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary. With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc., shall be levelled and prepared for raising of brickwork. Rates shall be deemed to be inclusive in this regard.

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc.).

Prices for removal of existing fittings, rails, countertops, etc. from walls shall be deemed to include for taking out of existing wall plugs and filling holes with an approved filler.

Prices for removal of existing fittings, rails, countertops, etc. from facebrick walls shall be deemed to include for taking out of existing wall plugs and filling holes with an approved filler and making good with an approved brick paste.

The Contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, roof structure, etc.).

Tenderers are to note that the work to be undertaken may require all necessary scaffolding, due to the heights of the structures to be constructed/ altered. Tenderers are to therefore price accordingly as rates will be deemed to include for same and No further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained.

Tenderers are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the aforementioned words in uppercase at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised systems to carry out LABOUR INTENSIVE work as hereinafter designated, will viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Extended Public Works Programme.

The Contractor will be held responsible for all damage however caused, to existing finishes and fittings etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and

	tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account. The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2003, all local by-laws, all user client regulations, and all Client (National Department of Public Works) regulations and procedures. Bidders are therefore urged to study all available material and to investigate fully the site and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above. Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
	purposes unless otherwise stated Demolishing, removal and dispose			
1,00	Identification and Decomissioning of existing bulk services	Sum	1,00	
2,00	Demolition of existing retaining 0m to 5m high (varies)		690,00	
		m		
3,00	Removal of existing reinforced v drains	m	680,00	
4,00	Single storey building with pitched roof size overall approximately 42m x 7m on plan and approximately 3600mm high at eaves, comprising reinforced concrete surface bed one brick external walls, half brick and one brick internal walls	No	16,00	
5,00	Certificied removal of Asbestos fibre sheeting by a specialist	m²	3710,00	
6,00	Certificied removal of Asbestos fibre rainwater goods by a specialist	m	650,00	
7,00	AIA Tests for Asbestos by a specialist	Item	2,00	
	Carried to Collection			

0.	Description	Unit	Quantity	Rate	Amount
	SECTION NO.02 - CIVIL WORKS				
	BILL NO 2 (PROVISIONAL)				
	SANS 1200 C				
	CPAP - Haylett Indices Work Group 154 to used.				
	SITE CLEARANCE				
	<u>Clear and grub</u>				
1,00	Areas	m2	12000,00		
2,00	Milling Exisiting Aphalt Surface	m³	5000,00		
3,00	Remove existing kerbing and dispose of kerbs off Site	m	2000,00		
4,00	Strips 2m wide	m	2000,00		
	Demons and much laws these and two atoms of sinth				
	Remove and grub large trees and tree stumps of girth				
5,00	Over 2m and up to and including 3m.	No	20,00		
	Remove topsoil to nominal depth of 100mm and stockpile.				
6,00	Remove topsoil to nominal depth of 100 mm and stockpile.	m3	3000,00		
	Carried to Collection				
	SECTION NO 4 - CIVIL WORKS				
	BILL NO 3 (PROVISIONAL)				
	SANS 1200 D				
	CPAP - Haylett Indices Work Group 154 to used.				
	EARTHWORKS - SITE PREPARATION				
	Bulk excavation				
	Excavate in all materials and use for embankment or backfill as ordered from				
1,00	Road and parking box-out	m3	2200,00		
2,00	Excavate in all materials and dispose	m3	712,00		
	Extra over bulk excavation for:				
3,00	Hard rock excavation.	m3	400,00		
	Importing of materials:				
4,00	Topsoiling (land scape areas)	m3	10000,00		
	Grassing or other vegetation cover:				

5,00	Hydro seeding (Land scape areas)	m2	10000,00		
	Extra over for disposing of soil material on a site provided by the Contractor	m3	5200,00		
	Carried to Collection				
	SECTION NO 4 - CIVIL WORKS				
	BILL NO 4 (PROVISIONAL)				
	SANS 1200 DB				
	CPAP - Haylett Indices Work Group 154 to used.				
	EARTHWORKS (PIPE TRENCHES)				
	TRENCHES FOR WATER PIPES				
	Excavate in all materials for trenches, backfill, compact and dispose of surplus material:				
	Pipes up to 125 mm dia for depths:				
1,00	Up to 1m	m	1600,00		
	Extra over excavation for pipe trenches for:				
2,00	Hard rock excavation	m3	160,00		
	Backfill stabilized with 5% cement where directed by the Engineer	m3	200,00		
	Excavate and dispose of unsuitable material from trench bottom				
	Excavate and dispose of unsuitable material from trench bottom	m3	500,00		
	Particular items:				
	Temporary works: Control water inflow from connection to water main				
5,00	Provide equipment	SUM	1,00		
5,00	Operate and maintain	DAY	30,00		
7,00	Remove equipment	Item	1,00		
	TRENCHES FOR SEWER PIPES				
	Excavate in all materials for trenches, backfill, compact and dispose of surplus material:				
	Pipes up to 160 mm dia for depths:				
3,00	Up to 1,0m	m	200		
9,00	Over 1,0 m up to 2,0 m	m	9000		
0.00	Over 2,0m up to 3,0m	m	3000		

11,00	Over 3,0m up to 4,0m	m	400	
	Extra over excavation for sewer pipe trenches for:			
12,00	Hard rock excavation	m3	410	
13,00	Backfill stabilized with 5% cement where directed by the Engineer	m3	750	
	Excavate and dispose of unsuitable material from trench bottom			
14,00	Excavate and dispose of unsuitable material from trench bottom	m3	750,00	
	Particular items			
15,00	Shore trench for excavations deeper than 1.5m	m	1200,00	
	TRENCHES FOR STORMWATER PIPES			
	Excavate in all materials for trenches, backfill, compact and dispose of surplus material:			
	Pipes over 400 mm dia up to 900 mm dia for depths:			
16,00	Up to 1,0m	m	200	
17,00	Over 1,0 m up to 2,0 m	m	1200	
18,00	Over 2,0m up to 3,0m	m	42	
19,00	Over 3,0m up to 4,0m	m	20	
	Pipe over 900mm dia up to 2 000mm dia for depths:			
20,00	Up to 1,0m	m		Rate Only
21,00	Over 1,0 m up to 2,0 m	m	600,00	
22,00	Over 2,0m up to 3,0m	m		Rate Only
23,00	Over 3,0m up to 4,0m	m		Rate Only
	Portal culverts over 900mm up to 2 000mm for depths:			
24,00	Up to 1,0m	m	210,00	Rate Only
25,00	Over 1,0 m up to 2,0 m	m	600,00	
26,00	Over 2,0m up to 3,0m	m	565,00	Rate Only
27,00	Over 3,0m up to 4,0m	m	780,00	Rate Only
	Extra over excavation for stormwater pipe trenches for:			
28,00	Hard rock excavation	m3	20	
	Hand excavation where ordered by the Engineer			
29,00	Soft material	m3	10	

		1	1	l .	
	Backfill stabilized with 5% cement where directed by the Engineer	m3	250		
31,00	Accommodation of traffic	SUM	1		
32,00	Excavate and dispose of unsuitable material from trench bottom	m3	600		
33,00	Excavate in all materials for stormwater inlet and outlet structures and for manholes, catchpits, valve chambers and the like, irrespective of depth, and backfill around structures.	m3	520		
34,00	Excavate open drains in all materials	m3	1100		
	Extra over for excavating in				
35,00	Hard rock material	m3	50		
	Excavation ancillaries				
36,00	Compaction in road crossings	m3	370		
	Particular items				
37,00	Shore trench excavations deeper than 1.5m	m	500		
	Finishing				
	Reinstate road surfaces complete with all courses				
38,00	By importation of Gravel material from commercial sources selected by the Contractor	m2	162		
39,00	Asphalt premix of thickness 30mm in roadway.	m2	162		
	Carried to Collection				
	SECTION NO 4 - CIVIL WORKS				
	BILL NO 5 (PROVISIONAL)				
	SANS 1200 DK				
	CPAP - Haylett Indices Work Group 154 to used.				
	GABIONS AND PITCHING				
	Pitching				
	Grouted pitching:				
1,00	Medium pitching	m2	350,00		
	Gabions:				
2,00	Refurbishment around existing Gabion Retaining Wall	Prov Sum	1,00		
	Gabion boxes of galvanized wire				
3,00	80mm x 100mm mesh, 2.7mm dia wire, 1mm x 5m x 0.5m boxes	m3			Rate Only

Gabion boxes of galvanized wire:       m3       Rate Only         4.00       Boxes       m3       Rate Only         5.00       Al Bidm or similar approved       m2       Rate Only         5.01       Al Bidm or similar approved       m2       Rate Only         5.01       Al Bidm or similar approved       m2       Rate Only         5.01       Al Bidm or similar approved       m2       Rate Only         6       Sectors No 4 - GIVIL WORKS.       Hill No 5 (PROVISIONAL).       Rate Only         8       BiLL No 5 (PROVISIONAL).       Sansi 120 DM       Frankment of Road-Bed       Frankment of Road-Bed         7       Reade preparation and compaction of material to:       m3       3235         Cut to fill       m3       3430         2,00       Compact to 90% Mod AASHTO density       m3       350         300       GB material compacted to 93% Mod AASHTO density       m3       350         5,00       Extra over for oblaining material from commercial sources       m3       2123         Carried to Collection       Carried to Collection       M3       2123         Sector No 4 - CiviL WORKS.       Frank Size OS       Frank Size OS       Frank Size OS         Circle to Scollection       Carried to Collection						
4.00       boxes       m3       Rate Only         Geotextlic:		Gabion boxes of galvanized wire:				
5,00     A4 Bidim or similar approved     m2     Rate Only       Carried to Collection     Carried to Collection     Image: Carried to Collection       SECTION NO 4 - CIVIL WORKS.     BILL NO 6 (PROVISIONAL).     SANS 1200 DM       CPAP - Haylett Indices Work Group 154 to used.     EARTHWORKS (ROADS, SUBGRADE).     Image: Carried to Collection       Tratament of Road-Bad     m3     3235       Road-bed preparation and compaction of material to:     Image: Carried to Collection       Cut to fill     m3     3235       2,00     Compact to 90% modified AASHTO maximum densily     m3     3235       2,00     Gompact to 90% Mod AASHTO densily     m3     350       3,00     G9 material compacted to 90% Mod AASHTO densily     m3     350       4,00     G7 material compacted to 90% Mod AASHTO densily     m3     350       5,00     Extra over for obtaining material from commercial sources     m3     2123       6     Carried to Collection     Carried to Collection     Image: Carried to Collection       5     SECTION NO 4 - Civil WORKS.     Bill NO 10 (PROVISIONAL).     Fasts 200 G       5     CONCRETE (STRUCTURE)     Carried to Collection     Image: Carried to Collection       6     CHEDULED FORMWORK ITEMS     m2     Image: Carried to Collection       7     Section NO 4 - Civil WORKS.     <			m3		Rate Only	
Carried to Collection		Geotextile:				
SECTION NO 4 - CIVIL WORKS         BiLL NO 5 (PROVISIONAL).         SANS 1200 DM         CPAP - Haylett Indices Work Group 154 to used.         EARTHWORKS (ROADS. SUBGRADE)         Treatment of Road-Bed         Road-bed preparation and compaction of material to:         1,00         Minimum of 90% modified AASHTO maximum density         m3       32235         Cut to fili         2,00       Compact to 90% Mod AASHTO density         m3       490         Selected layer using material from excavations         3,00       G9 material compacted to 93% Mod AASHTO density         m3       450         5,00       Extra over for obtaining material from commercial sources       m3         Carried to Collection       Carried to Collection         Section NO 4 - CIVIL WORKS       ELL NO 10 (PROVISIONAL).         SANS 1200 G       Carried to Collection         SCHEDULED FORMWORK ITEMS       Mail         Vertical formwork to       m2         1,00       Stormwater outlet structure Drop Manhole         m2       CherDULED REINFORCEMENT ITEMS         High tensile steel bars in the following       m2	5,00	A4 Bidim or similar approved	m2		Rate Only	
BILL NO 5 (PROVISIONAL).       SANS 1200 DM       Image: Sans 1200 DM <td></td> <td>Carried to Collection</td> <td></td> <td></td> <td></td> <td></td>		Carried to Collection				
SANS 1200 DM       CPAP - Haylett Indices Work Group 154 to used.       Image: Comparison of		SECTION NO 4 - CIVIL WORKS				
CPAP - Haylett Indices Work Group 154 to used.       Image: CPAP - Haylett Indices Work Group 154 to used.         EARTHWORKS (ROADS, SUBGRADE)       Treatment of Road-Bed         Road-bed preparation and compaction of material to:       m3         100       Minimum of 90% modified AASHTO maximum density       m3         200       Compact to 80% Mod AASHTO density       m3         200       Compact to 80% Mod AASHTO density       m3         200       G3 material compacted to 90% Mod AASHTO density       m3         30.00       G3 material compacted to 90% Mod AASHTO density       m3         400       G7 material compacted to 90% Mod AASHTO density       m3         50.00       Extra over for obtaining material from excavations       m3         50.00       Extra over for obtaining material from commercial sources       m3         51.00       Lot of LPROVISIONAL).       AMS 2123         SECTION NO 4 - CIVIL WORKS       M3         BILL NO 10 (PROVISIONAL).       AMS 1200 G         CONCRETE (STRUCTURE)       SCHEDULED FORMWORK ITEMS         SCHEDULED FORMWORK ITEMS       m2       Rate Only         1,00       Somwater outlet structure Drop Manhole       m2       Rate Only		BILL NO 6 (PROVISIONAL)				
EARTHWORKS (ROADS, SUBGRADE):       Image: Subgrade in the subgrade in		SANS 1200 DM				
Treatment of Road-Bed       Road-bed proparation and compaction of material to:       Image: State St		CPAP - Haylett Indices Work Group 154 to used.				
Road-bod preparation and compaction of material to:       m3       3235         1,00       Minimum of 90% modified AASHTO maximum density       m3       3235         Cutto fili		EARTHWORKS (ROADS, SUBGRADE)				
1.00Minimum of 90% modified AASHTO maximum densitym33235Cutto fili2.00Compact to 90% Mod AASHTO densitym3490Selected laver using material from excavations3.00G9 material compacted to 90% Mod AASHTO densitym33504.00G7 material compacted to 93% Mod AASHTO densitym34505.00Extra over for obtaining material from commercial sourcesm32123Carried to CollectionSECTION NO 4 - CIVIL WORKSBILL NO 10 (PROVISIONAL)SANS 1200 GCPAP - Haylett Indices Work Group 146 to usedSCHEDULED FORNWORK ITEMSVertical formwork to1.00Stormwater outlet structure Drop Manholem2KHEDULED REINFORCEMENT ITEMSHigh tensile steel bars in the following		Treatment of Road-Bed				
Sut to fill       Image: Selected layer using material from excavations       m3       490         3,00       G9 material compacted to 90% Mod AASHTO density       m3       350         4,00       G7 material compacted to 93% Mod AASHTO density       m3       350         5,00       Extra over for obtaining material from commercial sources       m3       2123         6 Zetton NO 4 - Civil WORKS       m3       2123         8 ECTION NO 4 - Civil WORKS       m3       2123         8 ELL NO 10 (PROVISIONAL)       m3       2124         SANS 1200 G       CPAP - Haylett Indices Work Group 146 to used.       Image: Set Construction for the structure of		Road-bed preparation and compaction of material to:				
2,00       Compact to 90% Mod AASHTO density       m3       490         Selected layer using material from excavations       m3       350         3,00       G9 material compacted to 90% Mod AASHTO density       m3       350         4,00       G7 material compacted to 93% Mod AASHTO density       m3       350         5,00       Extra over for obtaining material from commercial sources       m3       2123         6       Extra over for obtaining material from commercial sources       m3       2123         5       Extra over for obtaining material from commercial sources       m3       2123         6       FECTION NO 4 - CIVIL WORKS       m3       2123         8       SECTION NO 4 - CIVIL WORKS       FELL NO 10 (PROVISIONAL).       FELL NO 10 (PROVISIONAL).         SANS 1200 G       CPAP - Haylett Indices Work Group 146 to used.       FELE FELE FELE FELE FELE FELE FELE FELE	1,00	Minimum of 90% modified AASHTO maximum density	m3	3235		
Selected layer using material from excavations		Cut to fill				
3.00       G9 material compacted to 90% Mod AASHTO density       m3       350         4.00       G7 material compacted to 93% Mod AASHTO density       m3       450         5.00       Extra over for obtaining material from commercial sources       m3       2123         6       Extra over for obtaining material from commercial sources       m3       2123         7       SECTION NO 4 - CIVIL WORKS       m3       2123         8       SECTION NO 4 - CIVIL WORKS       For any of the compacted to used.       For any of the compacted to used.         CPAP - Haylett Indices Work Group 146 to used.       CONCRETE (STRUCTURE)       For any of the compacted to the compacted to used.       For any of the compacted to the compacted to used.         1,00       Stormwater outlet structure Drop Manhole       m2       For any of the compacted to used.       For any of the compacted to the compacted to used.         1,00       Stormwater outlet structure Drop Manhole       m2       For any of the compacted to used.       For any of the compacter outlet structure Drop Manhole         1,00       Stormwater outlet structure Drop Manhole       m2       For any of the compacter outlet structure Drop Manhole       For any of the compacter outlet structure Drop Manhole         1,00       Stormwater outlet structure Drop Manhole       m2       For any of the compacter outlet structure Drop Manhole       For any of the compact	2,00	Compact to 90% Mod AASHTO density	m3	490		
4,00       G7 material compacted to 93% Mod AASHTO density       m3       450         5,00       Extra over for obtaining material from commercial sources       m3       2123         Carried to Collection       m3       2123         SECTION NO 4 - CIVIL WORKS.       EllL NO 10 (PROVISIONAL).       Enter the following material from compacted to used.         SANS 1200 G       CPAP - Haylett Indices Work Group 146 to used.       Enter the following material from compacted to used.         CONCRETE (STRUCTURE)       SCHEDULED FORMWORK ITEMS       m2       Enter the following material from compacted to used.         1,00       Stormwater outlet structure Drop Manhole       m2       Enter the following material from compacted to used.         1,00       Stormwater outlet structure Drop Manhole       m2       Enter the following material from compacted to used.		Selected layer using material from excavations				
5,00       Extra over for obtaining material from commercial sources       m3       2123         Carried to Collection       Carried to Collection       Image: Carried to Collection         SECTION NO 4 - CIVIL WORKS.       BILL NO 10 (PROVISIONAL).       Image: Carried to Collection         SANS 1200 G       CPAP - Haylett Indices Work Group 146 to used.       Image: Concrete (STRUCTURE)         CONCRETE (STRUCTURE)       SCHEDULED FORMWORK ITEMS       Image: Carried to Collection         1,00       Stormwater outlet structure Drop Manhole       m2       Rate Only         1,00       Stormwater outlet structure Drop Manhole       Image: Carried to Collection       Image: Carried to Collection         1,00       Stormwater outlet structure Drop Manhole       Image: Carried to Carried	3,00	G9 material compacted to 90% Mod AASHTO density	m3	350		
Carried to Collection	4,00	G7 material compacted to 93% Mod AASHTO density	m3	450		
SECTION NO 4 - CIVIL WORKS.         BILL NO 10 (PROVISIONAL).         SANS 1200 G         CPAP - Haylett Indices Work Group 146 to used.         CONCRETE (STRUCTURE)         SCHEDULED FORMWORK ITEMS         Vertical formwork to         1,00         Stormwater outlet structure Drop Manhole         m2         Rate Only	5,00	Extra over for obtaining material from commercial sources	m3	2123		
BILL NO 10 (PROVISIONAL).       SANS 1200 G         SANS 1200 G       CPAP - Haylett Indices Work Group 146 to used.         CONCRETE (STRUCTURE).       CONCRETE (STRUCTURE).         SCHEDULED FORMWORK ITEMS       m2         Yertical formwork to       m2         SCHEDULED REINFORCEMENT ITEMS       m2         High tensile steel bars in the following       m2		Carried to Collection				
SANS 1200 G       Image: CPAP - Haylett Indices Work Group 146 to used.         CONCRETE (STRUCTURE)       Image: CONCRETE (STRUCTURE)         SCHEDULED FORMWORK ITEMS       Image: CONCRETE (STRUCTURE)         1,00       Stormwater outlet structure Drop Manhole         SCHEDULED REINFORCEMENT ITEMS       Image: CONCRETE (STRUCTURE)         High tensile steel bars in the following       Image: CONCRETE (STRUCTURE)		SECTION NO 4 - CIVIL WORKS				
CPAP - Haylett Indices Work Group 146 to used.       Image: CONCRETE (STRUCTURE)         CONCRETE (STRUCTURE)       Image: Concrete (STRUCTURE)         SCHEDULED FORMWORK ITEMS       Image: Concrete (STRUCTURE)         1,00       Stormwater outlet structure Drop Manhole         SCHEDULED REINFORCEMENT ITEMS       Image: Concrete (STRUCTURE)         High tensile steel bars in the following       Image: Concrete (STRUCTURE)		BILL NO 10 (PROVISIONAL)				
CONCRETE (STRUCTURE)         SCHEDULED FORMWORK ITEMS         Vertical formwork to         1,00         Stormwater outlet structure Drop Manhole         m2         Rate Only         High tensile steel bars in the following		<u>SANS 1200 G</u>				
SCHEDULED FORMWORK ITEMS       Vertical formwork to         1,00       Stormwater outlet structure Drop Manhole       m2         SCHEDULED REINFORCEMENT ITEMS       High tensile steel bars in the following		CPAP - Haylett Indices Work Group 146 to used.				
Vertical formwork to       m2         1,00       Stormwater outlet structure Drop Manhole         SCHEDULED REINFORCEMENT ITEMS         High tensile steel bars in the following		CONCRETE (STRUCTURE)				
1,00       Stormwater outlet structure Drop Manhole       m2       Rate Only         SCHEDULED REINFORCEMENT ITEMS       High tensile steel bars in the following       High tensile steel bars in the following		SCHEDULED FORMWORK ITEMS				
SCHEDULED REINFORCEMENT ITEMS High tensile steel bars in the following		Vertical formwork to				
High tensile steel bars in the following	1,00	Stormwater outlet structure Drop Manhole	m2		Rate Only	
		SCHEDULED REINFORCEMENT ITEMS				
2 00 All diameters		High tensile steel bars in the following				
	2,00	All diameters	t		Rate Only	

	High Tensile Welded Mesh			
3,00	All diameters	m2		Rate Only
	SCHEDULED CONCRETE ITEMS			
	Blinding layer class 15MPa/19mm concrete			
4,00	50mm Thickness	m2		Rate Only
	Strength concrete class 30 MPa/19 mm concrete in:			
5,00	Stormwater outlet structure, Drop Manhole and culvert foundation	m3		Rate Only
	Unformed Surface Finishes			
6,00	Stormwater outlet structure	m2		Rate Only
	Carried to Collection			R -
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 7 (PROVISIONAL)			
	<u>SANS 1200 L</u>			
	CPAP - Haylett Indices Work Group 170 to used.			
	MEDIUM-PRESSURE PIPELINES			
	Supply, lay, and bed on class B bedding, complete with couplings:			
	HDPE SABS 533 class 9 pipes			
1,00	90 mm diameter	m	1600	
2,00	160 mm diameter	m	340	
	Extra over for the supplying, laying and bedding of HDPE specials complete with couplings:			
	45° bends:			
3,00	90 mm diameter	No	44	
	90° bends:			
4,00	90 mm diameter	No	30	
5,00	160 mm diameter	No	16	
	Tees:			
6,00	90 x 90 mm Diameter	No	70	
	Reducers			
7.00	90mm x 160mm Diameter	No	16	

8,00	90mm Diameter	No	22	
9,00	160mm Diameter	No	14	
	End caps			
10,00	90mm Diameter	m	24	
	Extra over for supplying, laying and bedding connections complete with couplings			
	Viking Johnson flange adaptor (16m static head)			
11 00	90mm Diameter	No	12	
11,00	Viking couplings	NO	12	
12,00	65mm Diameter	No	10	
	Extra over for supplying, fixing and bedding of flanged gate valves			
13,00	90mm Diameter	No	10	
	Extra over for supplying, fixing and bedding of non- return valves			
14,00	90mm Diameter	No	6	
	Extra over for supplying, fixing and bedding of fire hydrants including double flanged distance piece between hydrant and tee			
15,00	80mm Diameter	No	8	
	Concrete			
16,00	Class 20MPa/19mm	m3	30	
	Formwork			
17,00	Rough	m2	34	
	Valve and hydrant chambers etc.			
18,00	Valve chamber	No	20	
19,00	Connection to existing main supply pipe	Item	1,00	
	PROVISION OF WATER CONNECTION			
20.00	Coonection application and fire hydrants supply and connection	ltem	1,00	
,	Carried to Collection		.,	
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 8 (PROVISIONAL)			
	<u>SANS 1200 LB</u>			
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	CPAP - Haylett Indices Work Group 104 to used.			
	BEDDING (PIPES)			
	Provision of Bedding from Trench Excavation			
1,00	Selected granular material.	m3	1400	
2,00	Selected fill material.	m3	480	
	Supply only of Bedding by Importation			
	From other necessary excavations			
3,00	Selected granular material.	m3	250	
4,00	Selected fill material.	m3	340	
	From commercial sources			
5,00	Selected granular material.	m3	226	
6,00	Selected fill material.	m3	226	
7,00	Extra over for bedding stabilized with 5% cement	m3	20	
	BEDDING FOR SEWER PIPES			
	Provision of Bedding from Trench Excavation			
8,00	Selected granular material.	m3	1200	
9,00	Selected fill material.	m3	1300	
	Supply only of Bedding by Importation			
	From other necessary excavations			
10,00	Selected granular material.	m3	45	
11,00	Selected fill material.	m3	45	
	From commercial sources			
12,00	Selected granular material.	m3	540	
13,00	Selected fill material.	m3	499	
14,00	Extra over for bedding stabilized with 5% cement	m3	81	
	BEDDING FOR STORMWATER PIPES			
	Provision of Bedding from Trench Excavation			
15,00	Selected granular material.	m3	1550	
16,00	Selected fill material.	m3	950	
	Supply only of Bedding by Importation			
	From other necessary excavations			
17,00	Selected granular material.	m3	6000	

		I	1	
18,00	Selected fill material.	m3	6000	
	From commercial sources			
19,00	Selected granular material.	m3	550	
20,00	Selected fill material.	m3	750	
21,00	Extra over for bedding stabilized with 5% cement	m3	20	
	Carried to Collection			
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 9 (PROVISIONAL)			
	SANS 1200 LD			
	CPAP - Haylett Indices Work Group 146 to used.			
	<u>SEWERS</u>			
	Supply, lay, joint, bed on class B bedding and test pipeline:			
	uPVC pipes, Class 34:			
1,00	110 mm diameter	m	950	
	Pre-cast concrete manholes			
	With SABS 558 type 4 cover and frame for:			
2,00	Depth 2,5 m up to 3,0 m	No	24	
3,00	Depth 3,0 m up to 3,5 m	No	4	
	Inspection chambers, etc.			
	Cleaning eyes			
4,00	Depth 0,5 m up to 1 m	No	18	
5,00	Depth 1 m up to 1,5 m	No	12	
6,00	Depth 1,5 m up to 2,0 m	No	8	
7,00	Depth 2,0 m up to 2,5 m	No	8	
8,00	Depth 3,0 m up to 3,5 m	No	6	
	Erf connections.			
	<u>uPVC</u>			
9,00	Туре Е	No	30	
	Anchor Blocks			
10,00	Class 20 MPa/19mm concrete	m3	32	
11,00	Connection to existing sewer	SUM	1	

	Carried to Collection			
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 10 (PROVISIONAL)			
	<u>SANS 1200 LE</u>			
	CPAP - Haylett Indices Work Group 146 to used.			
	STORMWATER DRAINAGE			
	Supply and Lay Concrete Pipe Culverts on class B bedding:			
	Type SC 100 -D-load pipes with ogee joints:			
1,00	450 mm diameter	m	1400	
2,00	600 mm diameter	m	240	
3,00	900 mm diameter	m	260	
	Lay Portal and Rectangular culverts supplied by Employer, Without precast invert slabs:			
4,00	Rocla 1200mm x 1200mm Class 175S Portal Culvert or similar approved	m	600	
5,00	Typical Stormwater Headwall	No	1	
	Supply and install manholes including frames and the like:			
	Brickwork Manholes			
6,00	for manhole standard depth 1.0m - 2.5m	No	24,00	
	Field inlets including step irons, rebar, brick and concrete work			
7,00	Depth 1.5m - 2.0m	No	8,00	
8,00	Depth 2.0m - 2.5m	No	2,00	
	<u>Grid inlets including grid inlet and frame, rebar, concrete and brck work</u>			
9,00	Depth 1.5m - 2.0m	No	9,00	
10,00	Depth 2.0m - 2.5m	No	4,00	
	Supply and install catchpits:			
	Kerb inlets:			
11,00	Length 2,4m	No	5,00	
	Lowering of existing manholes all types:			
12,00	0m up to 0.5m	No	4,00	

	<u>Accessories</u>			
13,00	Stormwater Outlet erosion protection (Engineer's Instruction	Sum	1,00	
	Carried to Collection			
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 11 (PROVISIONAL)			
	SANS 1200 LF			
	CPAP - Haylett Indices Work Group 146 to used.			
	ERF CONNECTIONS (WATER)			
	Supply and install meters complete with couplings			
1,00	90mm Diameter	No	5,00	
	Carried to Collection			
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 12 (PROVISIONAL)			
	<u>SANS 1200 ME</u>			
	CPAP - Haylett Indices Work Group 154 to used.			
	ROADS - SUBBASE (Incuding Side walks)			
	Construct the subbase course/shoulder/gravel wearing course with material by importation from commercial sources			
	Import material and stockpile or place on the road for the subbase course/shoulder/gravel wearing course (G7 Material compacted to 95% Mod Aashto)	m3	1200,00	
	Carried to Collection			
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 12 (PROVISIONAL)			
	<u>SANS 1200 MF</u>			
	CPAP - Haylett Indices Work Group 154 to used.			
	ROADS - BASE (Incuding Side walks)			
	Construct base with material from importation from commercial sources or designated borrow areas and compact to 95%:			
1,00	Gravel material (C4 material)	m3	1600	
2,00	Gravel material (G7 material) (Side Walk)	m3	900	
3,00	Gravel material (C2 material)	m3	550	

	Stabilizing Agent			
4,00	Portland cement.	t	270	
5,00	Stabilization (processes, as relevant and use in base (applicable to items 1 and 3):	m3	1500	
	Carried to Collection			
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 12 (PROVISIONAL)			
	<u>SANS 1200 MH</u>			
	CPAP - Haylett Indices Work Group 154 to used.			
	ASPHALT BASE AND SURFACING			
	Prime Coat:			
1,00	MC-30 cutback bitumen	m2	5500	
	Tack Coat:			
2,00	30% stable-grade emulsion	m2	5500	
	Asphalt base 30mm thick:			
3,00	Surface	m2	5500	
	Carried to Collection			
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 13 (PROVISIONAL)			
	<u>SANS 1200 MJ</u>			
	CPAP - Haylett Indices Work Group 154 to used.			
	ROADS - SEGMENTED PAVING			
	Provision of edge restraints			
1,00	For straight edging	m	320	
	Construction of Paving Complete with 20 mm Bedding Sand:			
	Type S-A blocks:			
2,00	60mm Thick	m2	2250	
3,00	80 mm thick	m2		Rate Only
	Cutting Units to Fit Edge Restraints:			
4,00	Straight cutting.	m	320	
	Carried to Collection			

	SECTION NO 4 - CIVIL WORKS			
	BILL NO 14 (PROVISIONAL)			
	SANS 1200 MK			
	CPAP - Haylett Indices Work Group 154 to used.			
	ROADS - KERBING AND CHANNELLING			
	Concrete Kerbing			
	SABS 927 fig 7 precast concrete kerbing:			
1,00	Radius up to 4m	m	650	
2,00	Radius over 4m up to 20m	m	3000	
3,00	Radius over 20m an straight sections	m	320	
	SABS 927 fig 8 Precast Concrete kerbing			
4,00	Radius up to 4m	m	2200	
5,00	Radius over 20m and straight sections	m	1040	
	Trimming of excavations for concrete lined open drains in			
6,00	Intermediate material	m2	950	
	Cast in-situ concrete lining to open drains			
,00	Grade 25 concrete, 100mm thick	m3	90	
	Formwork to cast-in-situ concrete lining of open drains (smooth surface finish):			
8,00	To ends of slabs	m2	6,00	
	Steel reinforcement			
,00	High-tensile welded mesh ref 193	m2	400,00	
	Carried to Collection			
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 15 (PROVISIONAL)			
	SANS 1200 MM			
	CPAP - Haylett Indices Work Group 154 to used.			
	ANCILLARY ROADWORKS			
	SCHEDULED ITEMS FOR PERMANENT ROAD SIGNS			
	Sign Faces with Painted or Galvanised (as stated) Background, with Painted Symbols, Characters, Legend and Borders, and with Signboards Constructed from:			

	Galvanised sheet (2,0mm thick) of area:			
1,00	R1 (Stop Sign)	m2	26	
	Sign Supports			
2,00	Steel tubing, 2100 mm High including protective treatment	No	26	
	Excavation and backfilling and concreting for sign supports:			
3,00	Excavation and backfilling and concreting for sign supports.	m3	52	
	ROAD MARKINGS Non-reflector paint applied at nominal rate of 0.42 l/m2 (or proprietary brand road-marking material (nominal rate of application and particulars stated))			
	<u>White lines (broken or unbroken):</u>			
4,00	100mm Wide	KM	0,88	
5,00	300mm Wide	KM	0,03	
6,00	600mm Wide	KM	0,06	
	Yellow lines (broken or unbroken):			
7,00	100mm Wide	KM	0,13	
8,00	300mm Wide	КМ	0,01	
	Yellow lines (broken or unbroken):			
9,00	White characters and symbols.	m2	215	
10,00	Yellow characters and symbols.	m2	20	
11,00	Traffic island markings (all colours).	m2	15	
	Supply and erect reflective wind sock according to ICAO standards complete with all fittings and support	No	1	
	Carried to Collection			
	SECTION NO 4 - CIVIL WORKS			
	BILL NO 15 (PROVISIONAL)			
	<u>SANS 1200 GE</u>			
	"Loffelstein" Precast concrete interlocking planter blocks finished smooth on exposed surfaces. (Work Group No. 112)			
	RETAINING FACE WALL			
	Patented Earth Retaining Systems			
	Earthworks (CPAP Work Group 104)			
	Excavations			

1,00	Excavate in soft excavations and compacted fill material for surface trenches not exceeding 2m deep and deposit on the site	m3	40		
2,00	19mm stone filling around weep pipe	m3	150		
	Extra over bulk excavation in earth for excavation in				
3,00	Soft rock	m3	25		
4,00	Hard rock	m3	18		
5,00	Backfilling from excavations to trenches and holes compacted to 98% MOD AASHTO density.	m3	10		
	Risk of collapse of excavations				
6,00	Surplus material from stock piles on site to a dumping site to be located by the contractor	m3	380		
	Extra over all excavations for carting away				
7,00	Sides of trench and hole excavations not exceeding 1.5m deep	m2	800		
	Concrete (CPAP Work Group 110)- Unreinforced concrete 15MPa/19mm in :				
8,00	Blinding	m3			Rate Only
	Unreinforced concrete 25MPa/19mm in				
9,00	Strip footings	m3			Rate Only
	Terrace Blocks Precast Concrete Blocks:				
10,00	Retaining structure with stepped face and curves as required to suit slopes using type G400 interlocking planter blocks (or similar approved) laid with horizontal bed joints including backfilling with approved material	m2	3500		
11,00	Geotextile: A4 Bidim or similar approved	m2	3500		
12,00	Course river sand filling behind retaining wall compacted to 98% MOD AASHTO density	m3	760		
	Plumbing and Drainage (CPAP WORK GROUP NO. 148)				
13,00	<b>Soil drainage:</b> 75mm Diameter weep pipe approximately 450mm long between retaining blocks and sealing around with an approved sealing agent	No	220		
14,00	19mm stone filling around weep pipe	m3	220		
	Making Good of Surrounding:				
15,00	Clearance and Cleaning	m2	1130		
	Carried to Collection				
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	SECTION NO 4 - CIVIL WORKS			
	BILL NO 15 (PROVISIONAL)			
	SANS 1200 PA			
	CPAP - Haylett Indices (CPAP Work Group No.136 Unless Otherwise Stated)			
	FENCING			
	Supply and erection of new fencing material:			
1,00	Palisade Fencing (Inclusive of foundations)	m	950,00	
	New Gates			
3,00	Double leaf gate supplied	No	1,00	
4,00	Profit and attendance on item above	%	15,00	
	Carried to Collection			

	EXTERNAL WORKS SUMMARY		
Bill No.		Page	Amount
1,00	Preliminaries and General		R
2,00	Demolition		R
3,00	SANS 1200 C - Site Clearance		R
4,00	SANS 1200 D - Earthworks		R
5,00	SANS 1200 DB - Earthworks (Pipe Trenches)		R -
6,00	SANS 1200 DK - Gabions and Pitching		R R
7,00	SANS 1200 DM - Earthworks (Roads, Subgrade)		R
7,00	SANS 1200 G - Concrete (Structural)		R
8,00	SANS 1200 L - Medium Pressure Pipelines		R
9,00	SANS 1200 LB - Bedding Pipes		R
10,00	SANS 1200 LD - Sewers		R
11,00	SANS 1200 LE - Stormwater Drainage		R
12,00	SABS 1200 LF ERF Connections		R
12,00	SANS 1200 ME - Roads - Subbase		R
12,00	SANS 1200 MF - Roads - Base		R
13,00	SANS 1200 MH - Roads - Asphalt base and surfacing		R
14,00	SANS 1200 MJ - Roads - Segmental Paving		R
15,00	SANS 1200 MK - Roads - Kerbing and Channelling		R
15,00	SANS 1200 MM - Ancillary Roadworks		R
15,00	SANS 1200 GE - Retaining Fase wall		R
16,00	SANS 1200 PA - Fencing		R
		SUB-TOTAL	P
		VAT @ 15%	
		 GRAND TOTAL	