

NELSON MANDELA CENTENARY CELEBRATION:
BILL OF QUANTITY
MVEZO KUMKHULO LANDSCAPE

NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
SUMMARY					
1	MISCELLANEOUS				
2	EARTHWORKS AND COMPOSTING				
3	SOFT LANDSCAPING				R -
4	HARD LANDSCAPING				R -
5	LIGHTING				R -
6	ENTRANCE PRICINCT				R -
7	WELCOME CENTRE BACK ENTRANCE		PC		R 750 000,00
8	BULK SERVICES/ ENGINEERING SERVICES				R -
9	FENCING				R -
10	WATER SUPPLY AND IRRIGATION				R -
11	LABOUR		PC		R 750 000,00
12	MAINTENANCE		PC		R 600 000,00
	Subtotal (excluding contingencies and 15% VAT)				
13	CONTINGENCIES			10%	R -
	SUBTOTAL (excluding 15% VAT)				R -
	VAT			15%	R -
TOTAL (including 15% VAT)					R -

NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
1, MISCELLANEOUS					
1.1	Preliminaries and general				
	The Client reserves the right to adjust the bill to meet the budgetary requirements of the project.	x	x	x	Note to tenderer
	The Contract will be governed by the Minor Works Agreement JBCC 2000 Series as	x	x	x	Note to tenderer
	The preliminaries are to be the JBCC Series 2000, as prepared by the Joint Building Contract Committee, latest edition, and shall be deemed to be	x	x	x	Note to tenderer
1.1.1	Site establishment				
a.	The Contractor is to establish a site office that must include the following: storage, 24 hour security, a meeting office with chairs, adequate toilet facilities, tools and equipment and any other facilities which the contractor deems necessary for the works during the entire contract period including the maintenance period.	1	sum		R -
b.	The Contractor is to allow for a suitably high fence as well as barricades on site	1	sum		R -
c.	Contractor to allow for construction/safety signs as per government requirements and standards. The sign board is to clearly describe the nature of the construction work taking place and the responsible team and client.	1	sum		R -
d.	Removal of site facilities	1	sum		R -
1.1.2	Occupational Health and Safety				
a.	Allowance for adhering to the requirements of the Occupational Health and Safety Act No. 85 of 1993. Refer to item 2.10 of the Specification Document for a guideline of the 'Assessment and safety plan must be in place.				
	Safety file to meet legislative requirements. Daily toolbox talks with attendance registers. Appointment of Safety Representative with necessary qualifications. Appointment of a Safety Officer on site. Purchase of First Aid kit. Medical certificates for all employees. Personal Protective Equipment (PPE) for all labourers on site. Purchase of fire protection equipment.	1	sum		R -
b.	Allow the Provisional Amount of Fifteen Thousand Rand for medical checks and medical certificates for all EPWP labour prior to commencement of work on	1	sum		R -
c.	Allow the Provisional Amount of Twenty Thousand Rand for branded overalls for	1	sum		R -
1.1.3	EMS for ISO 14001 compliance				
NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
a.	Allowance for adhering to the requirements of the Environmental Management Plan for ISO 14001 Compliance. Documentation and reporting to be provided on a monthly basis. Refer to Annexure 1 of the Specification Document for EMS				
	Supply of litterbins for site camp. Necessary hazardous chemical stores (paint store and fuel storage separately) to meet requirements incl MSDS. Appointment of environmental representative/officer.	1	sum		R -
b.	Development of Environmental risk assessment and EMP including items below:				
	Waste management plan. Dust suppression plan. Emergency preparedness plan. Site establishment plan. Rehabilitation plan.	1	sum		R -
c.	Allowance for water cart for dust suppression. Estimate dust suppression 2/week	12	day		rate only
d.	Fencing off of historical elements. 1200mm high diamond mesh fence with droppers	1	Lm		rate only
1.1.4	General requirements				
a.	Contractor to allow for the appointment of a Community liaison officer (CLO) with an approved salary from the municipality and a cell phone allowance for the entire	3	mnth		R -
b.	Contractor to allow for the accredited training of all applicable labourers and small local businesses as required by the tender document, the municipality and by law.	1	sum		R -
c.	Contractor to allow for all construction guarantees, guarantees, and insurances as	1	sum		R -
1.2	Site clearance				
a.	Clear site of all unwanted organic and non-organic material. All material to be placed in measurable storage heaps and removed from site to the closest dumping site.	9046	m²		R -
b.	Pruning of existing trees using safe and approved practises. All material to be placed in measurable storage heaps and removed from site to the closest	15	no.		R -
c.	Removal of existing paving stones. All material to be placed in measurable storage	500	m²		R -
d.	Removal of existing debry and all other waste lying around on site to the nearest approved registered site.	Rate	no.		rate only
g.	Removal of existing litterbins off site (location to be confirmed). Litterbins to be removed neatly to allow it to be reused.	10	no.		R -
TOTAL FOR MISCELLANEOUS					R -

NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
2, EARTHWORKS AND COMPOSTING					
2.1	Bulk earthworks/ contour manipulation				
	Cut and fill material to desired profiles as indicated on plans and instructed on site by the Landscape architect. All areas to be precision shaped to create a level appearance. The landscape must be shaped to assist stormwater flow and	x	x	x	Note to tenderer
a.	Cutting of soil for contour manipulation and levels at play area. Material to be placed in measurable storage heaps and to be kept on site.	600	m³		R -
b.	Fill material for contour manipulation and levels at play area. Material from cutting to be used for fill areas.	20	m³		R -
c.	Final soil shaping of landscape areas/earth mounds/ amphitheatre. To be surveyed with a dumpy level to ensure correct level.	690	m²		R -
2.2	Topsoil import and spread				
	Supply suitable clean sifted topsoil from commercial sources. Topsoil shall vary between sandy loamy soil and sandy clayey soil with an ideal ratio of 15% to 25% clay, 10% silt/sludge and 65% to 75% sand, with a minimum ratio of organic material of 2% of volume. All material shall be free of harmful deposits such as salts, weed seeds and waste of any kind.	450	m³		R -
a.	Import and spread 50mm topsoil over all newly laid lawn areas	450	m³		R -
b.	Import and spread 100mm topsoil over areas planted with shrubs	600	m³		R -
2.3	Compost import and spread				
	Compost shall be composted of properly decayed organic material, free from harmful deposits, salts, seeds and other waste material and shall have a pH of more than 4 and less than 7.	x	x	x	Note to tenderer
a.	0.17m³ of compost per tree hole	100	m³		R -
b.	Import and spread 50mm compost over shrub areas (excluding lawn)	50	m³		R -
2.4	Organic fertilizer				
	Fertilizers shall be of the type specified, mixed thoroughly into the soil as prescribed. No fertilizer shall be added more than two weeks prior to planting. All fertilizers on grassed areas shall be strewn on the final layer before the final finishing is commenced and worked mechanically into the top 150mm soil.	x	x	x	Note to tenderer
a.	2:3:2 (100g/tree hole)	30	kg		R -
b.	Super phosphate (375g/tree hole)	100	kg		R -
c.	2:3:2 (50g/m² of lawn and shrubs)	50	kg		R -
d.	Super phosphate (150g/m² of lawn and shrubs)	150	kg		R -
TOTAL FOR EARTHWORKS AND COMPOSTING					R -

NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
3, SOFT LANDSCAPING					
3,1	Transplanting trees (tree stakes and ties incl.)				
a.	Tree with root ball to be removed. Prune 40% of tree leaves back. Tree still to retain natural character. Contractor to ensure that tree will not get ring barked. 1,5mØ root ball still intact after tree is dug out. Main root wound to be sealed with appropriate root sealer. Tree to be properly bagged with hessian bag and wire basket. Trees to be replanted in new position as pointed out by Landscape architect. Trees to be properly staked with the appropriate stakes and ties. Contractor to use a minimum of 3 stakes. Staking to be approved by Landscape architect. Contractor to repair areas where trees are transplanted from in order to	3	no.	R	-
3,2	Trees (tree stakes and ties incl.)				
	All plants needed can be either grown and maintained at the contractors own nursery or sourced from any SANA registered nurseries. All plants must adhere to the sizes and quality as specified. All plants to be free from any damages, parasites, fungus or any other plant diseases or insects. No container bound plants will be acceptable. Plants must be well rooted and well established. All leaves to be dust free. All plants are to be viewed and approved by Landscape Architect prior to planting. The Landscape Architect retains the right to adjust specific species if plants are not available or of poor quality. All plants must be transported to the site in trucks with closed canopies. Plants in transit may not be exposed to wind or other harmful elements. Plants need to be watered regularly as for the specific needs of each specie. If the contractor decides to grow the plants to reduce cost, care must be taken that plants will be ready for installation at the indicated time frames. Supply all equipment and labour for planting of trees, shrubs and groundcovers. Backfill with soil, compost and fertilizer to specification and tramp down firmly. Provide all necessary stakes and ties for trees and secure tree firmly. Form pond around trees and shrubs and water well after planting. Keep all plants moist. If planting happens in winter ensure necessary winter protection is provided for the	x	x	x	Note to tenderer
	The height of the trees shall be measured from the top of the root ball to the top of the tree. Where trees are pruned, such prune wounds shall not be more than 25mm in diameter and be sealed with an approved sealing compound. The average height of a 100L tree is between 2.5m and 3m with an average stem diameter of between 4cm and 7cm. The average height of a 50L tree is between 1.8m and 2.2m with an average stem diameter of between 2.5cm and 4cm. Tree holes to be 850 x 850 x 750mm	x	x	x	Note to tenderer
a.	<i>Plant Species Tree type 1</i>	100	no.	R	-
b.	<i>Plant Species Tree type 2</i>	30	no.	R	-
c.	<i>Plant Species Tree type 3</i>	26	no.	R	-
NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
3,3	Lawn				
	The contractor to provide all the necessary machinery, labour, transport and material to plant the new lawn. Top of lawn levels are to be 35mm lower than the top of the kerb or paving levels. All lawn to be free of weeds. All sods to be side to side with no gaps. All lawn to be rolled with appropriate roller as per general specifications till the satisfaction of the Landscape architect. Open patches to be				
a.	Hydroseeded Lawn - <i>Cynodon dactylon</i>	5000	m²	R	-
3,4	Shrubs and groundcovers				
	Shrubs and groundcovers shall meet the requirements for the height and spread as specified. Thin or sparsely-branched plants shall not be accepted. Branches shall be well-spread with amply young branches and the plant as a whole shall be	x	x	x	Note to tenderer
a.	<i>Dietes grandiflora</i> (2L@6m²)	1600	no.	R	-
b.	<i>Agapanthus africanus</i> (2L@6m²)	1600	no.	R	-
c.	<i>Tulbaghia violacea</i> (2L@6m²)	1600	no.	R	-
c.	<i>Ornamental Grasses</i> (2L@6m²)	1600	no.	R	-
d.	Creepers for entrance features - <i>Parthenocissus quinquefolia</i> (4L)	200	no.	R	-
	6600				
TOTAL FOR SOFT LANDSCAPING					R -

NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
4, HARD LANDSCAPING					
	Contractor to supply all necessary equipment and labour for the installation of hard landscape facilities. Drawings and BOQ needs to be read in conjunction, rates to be all inclusive. Contractor needs to take responsibility of the complete	x	x	x	Note to tenderer
4.1 Paving (includes relevant layer works)					
	Contractor to supply all necessary equipment and labour for the layer works. All rates to include the cutting of the paving. Excavate in-situ subsoil to depth of 300mm and recompact in 150mm layers to density of 93% MOD AASHTO. Paving to be laid on 25mm thick river sand bed with dry filler sand, cement mix swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 MJ. All edges to be installed on a 100mm thick 25MPa concrete footing.	x	x	x	Note to tenderer
a.	Clay Ironstone paver (200x98,5x50mm), for main walkways . Manufactured in accordance with SANS 1575:2007, laid in basket weave pattern, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm thick compacted river sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 MJ. Paving to be inspected and re-sanded after three months.	1	m²		R -
b.	Concrete kerb F-3 - 1m	1000	Lm		R -
c.	Concrete kerb F-3 -300mm	200	Lm		R -
d.	60mm Interlockin =g tan paving block 25MPa, for pedestrian sidewalk lane . Manufactured in accordance with SANS 1058:2012, laid in herringbone pattern, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm thick compacted river sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 MJ. Paving to be inspected and re-sanded after three months.	3030	m²		R -
e.	60mm Interlocking red paving block 25MPa, for bicycle sidewalk lane . Manufactured in accordance with SANS 1058:2012, laid in herringbone pattern, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm thick compacted river sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 MJ. Paving to be inspected and re-sanded after three months.	530	m²		R -
NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
f.	60mm Interlocking grey paving block 25MPa, for parking area strip . Manufactured in accordance with SANS 1058:2012, laid in herringbone pattern, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm thick compacted river sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 MJ. Paving to be inspected and re-sanded after three months.	700	m²		R -
h.	Concrete Pedestrian Paver (400x300x60mm) epoxy white laid in paving, positions to be determined on site by Landscape architect. Installed with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm thick compacted river sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 MJ. Paving to be inspected and re-sanded after three months.	1	m²		R -
4.2 Steel Pergola structure					
a.	Contractor to allow a provisional sum for the commission of two custom steel pergola	2	no.		R -
4.3 Benches					
a.	Supply, deliver and install 1800mm long concrete bench with a smooth finish. Rate to be all inclusive.	10	no.		R -
NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
4.5 Litterbins					
a.	Supply, deliver and install large concrete square litterbins 550x550x1000mm, smooth	10	no.		R -
4.6 Tree openings					
a.	Supply, deliver and install medium barrier concrete kerb KC31 (100x1000mm) with 50mm openings for drainage. Rate to be all inclusive. Manufactured in accordance with SANS 927:2013 and SANS 1200MK. Kerb to be laid on a 100mm thick 25MPa concrete footing/haunch. A bedding material of at least 50mm thick should be used that consists of crushed stone, cement, and sand with a maximum particle size of 13.2mm.	0	no.		Rate only
4.10 Signage					
a.	Installation of standard sign with concrete footing. Rate to be all inclusive.	3	no.		R -
b.	Manufacture, supply and installation of various information signs all around the	12	no.		R -
TOTAL FOR HARD +133:150LANDSCAPING					R -

NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
5, LIGHTING					
	Contractors are to note that the Electrical Subcontractor undertaking this work must be registered with and approved by City Power as a competent Streetlighting Contractor.	x	x	x	Note to tenderer
	The works entail the supply, delivery , installation, testing and commissioning, and handing over in working condition to JCPZ and maintenance during guarantee	x	x	x	Note to tenderer
	Latest versions of the following City Power standards are applicable: CP_TSSTAN CP_TSSTAN_035 CP_TSSPEC_012 CP_TSSTAN_037 CP_TSSTAN_036	x	x	x	Note to tenderer
	Latest versions of the following SABS standards are applicable: SABS 0292 SANS 60439-1 SANS 10142-1 SANS 1973-1 SANS1507-1 SANS 10198-2	x	x	x	Note to tenderer
5.2	Electricity supply				
a.	Supply and install a pole mounted light control box containing a 60A 3 pole Circuit Breaker, contactor, a timer and a bypass switch and having a photocell on top (as per City Power specification CP_TSSPEC_072). The control box is to be installed on the pole from which the existing light is supplied, at Gresswold Park.	1	no.		R -
5.3	Underground cables and accessories				
	Price for the supply, delivery and installation of cable specified. Trenching and backfilling are measured elsewhere.	x	x	x	Note to tenderer
a.	25 sqmm x 4core PVC/SWA/PVC 600/1000V ECC Cu Cable installed	150	m		R -
b.	Cable Terminations for the above cable in lv switchboards or at light poles including for armour glands, shrouds, lugs, earth, connection to terminals etc.	24	no.		R -
c.	Cable Guard suitable for the specified cable size, installed at intervals of 5m where	20	no.		R -
d.	110mm Diameter ribbed PVC Cable Sleeves installed underneath hardened	65	m		R -
e.	Cable marking tape	330	m		R -
5.4	Luminaires and accessories				
	Light poles				

NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
a.	Supply and install new galvanized steel poles suitable for 3m posttop luminaire mounting height ANGL, 0.6m root depth with access door, baseplate and gland plate. NB: The pole holes are measured elsewhere.	12	no.		R -
	Light fittings				
	Supply and install post-top area lights as specified complete with all fittings, lamps and control gear, mounting brackets etc	x	x	x	Note to tenderer
b.	Supply and install 19W LED post top light fitting complete 6A MCB, all wiring etc. The	12	no.		R -
	Earthing				
c.	Supply and install 1500mm long copper earth electrode driven into ground adjacent to light pole complete with BCEW termination and connections etc.	8	no.		R -
5.5	Trenching and backfilling				
	Cable trenches are to be 600mm deep, 500mm wide or as specified, the recommended sizes shall be used for measurements. Excavate in earth and set excavated material aside for re-use as filling for the following material : Rates include cable bedding soil, backfilling, cable tape, compacting and making good. Backfilling of material shall be compacted in layers not exceeding 150mm in thickness. Rates are to include trenching, cable bedding soil, making safe, back filling, compacting and making good.				
a.	Excavating and backfilling for cable in pickable soil.	59	m³		R -
b.	Excavating and backfilling in 'hard pickable material' (Class 2).	30	m³		R -
c.	Excavating and backfilling in 'hard rock' (Class 3).	10	m³		R -
	Pole holes				
d.	0.6m deep pole hole in pickable material.	6	no.		R -
e.	0.6m deep pole hole in hard pickable material.	5	no.		R -
f.	0.6m deep pole hole in hard rock	1	no.		R -
5.6	Mark up (red line) as-built drawings and submit to Engineer	1	sum		R -
5.7	Testing and commissioning				
a.	Test and commission the LIGHTING INSTALLATION circuit in the presence of the Electrical Engineer including issue of Test Certificates to necessary standards, 12 months guarantee and hand over to responsible operating	1	sum		R -
TOTAL FOR LIGHTING					R -

NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
6, ENTRANCE PRICINCT					
6,1	Construction of guard house				
	Foundation				
	600mm x 400mm Grade 20 Concrete footing	9	m²	R	-
	Brickwork:				
a.	230 mm thick	110	m²	R	-
b.	Plaster 10-15 mm thick, wood-float finish	120	m²	R	-
c.	Floor screed, cast in situ 25mm grade 15 Concrete	18	m²	R	-
	Doors and windows:				
a.	Aluminium Door 2125 mm x 900 mm x 100 mm	2	no.	R	-
b.	Wooden Door with Frame 2032 mm x 813 mm x 115 mm	4	no.	R	-
c.	Aluminium Windows 600 mm x 900 mm	4	no.	R	-
d.	Aluminium Windows 1500 mm x 900 mm	2	no.	R	-
	Structural timber:				
	Treated 150mm Diameter x 2.4 Beams	6	no.	R	-
	Treated Rafters				
a.	150mm Diameter x 11 000mm	12	no.	R	-
b.	150mm Diameter x 7 000mm	6	no.	R	-
c.	150mm Diameter x 5 000mm	22	no.	R	-
d.	150mm Diameter x 3 500mm	6	no.	R	-
	Treated Column Poles				
a.	200mm Diameter x 4 500mm	6	no.	R	-
	Miscellaneous work:				
a.	Paintwork, Plumbing, Electrical Work, Cupboards, Ceiling	1	Sum	R	-
	Roof				
a.	Thatch roofing	1	Sum	R	-
6,2	Gates				
a.	6000mm x 2400mm ClearVu Sliding Gate	1	Sum	R	-
b.	Circular Pedestrian Gates	1	no.	R	-
c.	ZKTECO PB4000 6meter barrier (L/R)	1	no.	R	-
6,3	Refurbish Entrance precinct paving	750	m²	R	-
TOTAL FOR BULK SERVICES/ STORMWATER					R -

NO	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
7, WELCOME CENTRE BACK ENTRANCE					
7,1	Construction of staircase				
	Foundation				
	600mm x 400mm Grade 20 Concrete footing	120	m²		Rate Only
	Concrete Columns:				
	Class 25 Concrete - 30 m³ of concrete	30	m³		Rate Only
	Steel reinforcement	1	Ton		Rate Only
	Stair Case				
	Class 25 Concrete Base	100	m²		Rate Only
	Steel reinforcement	1	Ton		Rate Only
	Floor Slab				
	Class 25 Concrete	10	m²		Rate Only
	Steel reinforcement	1	Ton		Rate Only
	Block paving				
	60mm Bavel type	0	m²		Rate Only
	Brickwork:				
	450 mm thick	340	m²		Rate Only
	Fill Material				
	Supply G8 matrial and compact every 150mm	188	m3		Rate Only
	Geotextile - Geogrid				
	Geogrid:				
	biaxial polypropylene geogrids	800	m²		Rate Only
	Allow for concrete remedial works	1	PC	R 750 000,00	R 750 000,00
TOTAL FOR WELCOME CENTRE				R	750 000,00

8, BULK SERVICES/ ENGINEERING SERVICES					
8,1	Bulk Excavation				
	Excavate in all materials and use for embankment or backfill as ordered from:				
a.	Necessary excavations	315	m³	R	-
	Excavate in all materials and dispose				
a.	Intermediate excavation	189	m³	R	-
b.	Hard rock excavation	63	m³	R	-
c.	Boulder excavation, class A	32	m³	R	-
d.	Boulder excavation, class B	32	m³	R	-
8,2	Entrance Road Widening				
a.	Import G5 Base Material and construct at 150mm layers	75	m3	R	-
b.	Import G6 Base Material and construct at 150mm layers	159	m3	R	-
c.	Rip and Re-compact in-situ material at 1500mm layers	80	m3	R	-
8,3	Parking Facility				
a.	Import G6 Base Material	120	m3	R	-
b.	Import G7 Base Material	240	m3	R	-
c.	Rip and Re-compact in-situ material	1520	m3	R	-
8,5	Walkway				
a.	Import G7 Base Material	120	m3	R	-
8,6	Allow for Engineering Permanent Road Signs	1	Sum	R	-
8,7	V-Drain Concrete Channel				
	Concrete Kerbing, Concrete Channelling, Chutes and downpipes, and concrete lining for open drains				
a.	Cast in-situ class 20/19 concrete channel	50	m3	R	-
b.	Reinforcement steel				
c.	In inlet and outlet structures	6	No.	R	-
8,9	Allow for Engineering Gabion baskets/Reno mattress				
	Gabions:				
	Gabion boxes of galvanized wire:				
	80 mm x .100 mm mesh, 3 mm dia wire, 1 m x 1 m x 1 m boxes	400	m3	R	-
8,10	Allow for Engineering Stormwater channel rock pitching				
	Heavy Stone Pitching:	300	m2	R	-
8,11	Allow for Engineering Stormwater channel Boulders & Rocks	1	Sum	R	-
8,12	Allow for Engineering Pedestrian bridge	1	Sum	R	-
TOTAL FOR BULK SERVICES/ STORMWATER				R	-

9, FENCING					
	Installation of Fence				
9,1	Wooden pole fence	2000	m	R	-
TOTAL FOR FENCING					R -

10, WATER SUPPLY AND IRRIGATION					
	Installation of water supply and irrigation system				
10,1	Water connection point to existing borehole and supply	1	no.	R	-
10,2	Labour				
a.	M-line labour, trench, inst. & backfill up to 500mm deep	400	no.	R	-
TOTAL FOR WATER SUPPLY AND IRRIGATION					R -

11, LABOUR					
11,1	Six months period:				
a.	Full employment of general labour extensive provided by the local council	6	nth	R 125 000,00	R 750 000,00

12, MAINTENANCE					
12,1	12 months establishment/ maintenance period:				
a.	Full maintenance and establishment of all bulk services, landscape areas inclusive but not restricted to the maintenance of the irrigation, electrical, any features, buildings, paved areas, soft landscaping, application of pesticides, fertilizers and replacement of plants etc. All in accordance with the routine maintenance specifications. Maintenance to commence upon date of practical completion.	12	nth	R 50 000,00	R 600 000,00
TOTAL FOR MAINTENANCE					R 600 000,00