PART 2: PRICING DATA

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C2.1 Pricing instructions: Option B

The *conditions of contract*

How the contract prices work and assesses it for progress payments

Clause 11 in NEC3 Engineering and Construction Contract, June 2005 (ECC) Option B states:

Identified and defined terms	11 11.2	(21) The Bill of Quantities is the *bill of quantities* as changed in accordance with this contract to accommodate implemented compensation events and for accepted quotations for acceleration. (22) Defined Cost is the cost of the components in the Shorter Schedule of Cost Components whether work is subcontracted or not excluding the cost of preparing quotations for compensation events. (28) The Price for Work Done to Date is the total of • the quantity of the work which the *Contractor* has completed for each item in the Bill of Quantities multiplied by the rate and • a proportion of each lump sum which is the proportion of the work covered by the item which the *Contractor* has completed. Completed work is work without Defects which would either delay or be covered by immediately following work. (31) The Prices are the lump sums and the amounts obtained by multiplying the rates by the quantities for the items in the Bill of Quantities.

This confirms that Option B is a re-measurement contract and the bill comprises only items measured using quantities and rates or stated as lump sums. Value related items are not used. Time related items are items measured using rates where the rate is a unit of time.

Function of the Bill of Quantities

Clause 55.1 in Option B states, “Information in the Bill of Quantities is not Works Information or Site Information”. This confirms that instructions to do work or how it is to be done are not included in the Bill, but in the Works Information. This is further confirmed by Clause 20.1 which states, “The *Contractor* Provides the Works in accordance with the Works Information”. Hence the *Contractor* does **not** Provide the Works in accordance with the Bill of Quantities. The Bill of Quantities is only a pricing document.

Guidance before pricing and measuring

Employers preparing tenders or contract documents, and tendering contractors are advised to consult the sections dealing with the bill of quantities in the NEC3 Engineering and Construction Contract (June 2005) Guidance Notes before preparing the *bill of quantities* or before entering rates and lump sums into the *bill*.

Historically bill of quantities based contracts in South Africa have been influenced by the different approaches of the civil engineering and building sectors of the industry through their respective discipline based standard forms of contract and methods of measurement. This is particularly apparent in the approach to the Preliminary and General bill. On the other hand, because ECC caters for a number of disciplines in the same contract, including electrical works, a different approach not currently found in local methods of measurement to the Preliminary & General bill items may have been used.

The NEC approach to the P & G bill assumes use will be made of method related charges for Equipment applied to Providing the Works based on durations shown in the Accepted Programme, fixed charges for the use of Equipment that is required throughout the construction phase, time related charges for people working in a supervisory capacity for the period required, and lump sum charges for other facilities or services not directly related to performing work items typically included in other parts of the bill.

Measurement and payment

Symbols

The units of measurement described in the Bill of Quantities are metric units abbreviated as follows:

Abbreviation	Unit
%	percent
h	hour
ha	hectare
kg	kilogram
kl	kilolitre
km	kilometre
km-pass	kilometre-pass
kPa	kilopascal
kW	kilowatt
l	litre
m	metre
mm	millimetre
m^2	square metre
m^2-pass	square metre pass
m^3	cubic metre
m^3-km	cubic metre-kilometre
MN	meganewton
MN.m	meganewton-metre
MPa	megapascal
No.	number
Prov sum[1]	provisional sum
PC-sum	prime cost sum
R/only	Rate only
sum	Lump sum
t	ton (1000kg)
W/day	Work day

General assumptions

Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made in the quantities for waste.

The Prices and rates stated for each item in the Bill of Quantities shall be treated as being fully inclusive of all work, risks, liabilities, obligations, overheads, profit and everything necessary as incurred or required by the *Contractor* in carrying out or providing that item.

The rates and prices entered in the Price List shall be deemed to be the fully inclusive value of the work covered by the several items, including the following unless specified otherwise:

[1] Provisional Sums should not be used unless absolutely unavoidable. Rather include specifications and associated bill items for the most likely scope of work, and then change later using the compensation event procedure if necessary. This is because tenderers cannot programme effectively for unknown scopes of work

1. Supervision and the TLB operator, labour and all costs in connection therewith, including transport of personnel and their PPE.
2. The supply of materials, goods, storage, facilities and services and all costs connected therewith including wastage.
3. Plant (a TLB), equipment and tools and all costs in connection therewith including fuel.
4. All general obligations, requirements, liabilities and risks involved in the aiding of the investigation as set forth or implied in the documents on which the tender is placed.
5. Establishment charges, overheads and profit.
6. Removal of all plant, equipment, tools, debris and waste from site on completion.
7. Delivery of samples to the laboratory, sample preparation and testing, and presentation of the results.

It is the intention to complete all the fieldwork within 1 working day. No test pits will be allowed to be left open.
Rates for laboratory testing are to include the cost of sample preparation, testing, reporting and the disposal of unused sample material.

Clause 63.13 in Option B provides that these rates and Prices may be used as a basis for assessment of compensation events instead of Defined Cost.

Where this contract requires detailed drawings, designs or other information to be provided, and no rates or prices are included in the *bill* specifically for such matters, then the *Contractor* is deemed to have allowed for all costs associated with such requirements within the tendered rates and Prices in the Bill of Quantities.

An item against which no Price is entered will be treated as covered by other Prices or rates in the *bill of quantities*. If a number of items are grouped together for pricing purposes, this will be treated as a single lump sum.

The quantities contained in the Bill of Quantities may not be final and do not necessarily represent the actual amount of work to be done. The quantities of work assessed and certified for payment by the *Project Manager* at each assessment date will be used for determining payments due and not the quantities given in the Bill of Quantities.

The short descriptions of the items of payment given in the *bill of quantities* are only for the purposes of identifying the items. More detail regarding the extent of the work entailed under each item is provided in the Works Information.

C2.2 The *bill of quantities*

Item No	Description	Unit	Quantity	Rate	Amount
	SECTION A				
1	PRELIMINARY & GENERAL ITEMS				
	FIXED COSTS				
1.1	Allow amount for Site Establishment (Offices, Ablutions, tools, and equipment, water supplies point, electricity and communication)	Sum	1		R -
1.2	Allow an amount for De-establishment	Sum	1		R -
1.3	Allow amount for Environmental, Health and safety compliance and related obligations.	Sum	1		R -
1.4	Allow amount for engineering designs by a registered civil engineer or technologist for the layer works, road surface, the new storm water system and sewer lines, general supervision for the site including monitoring, inspection reports for the duration of the project	Sum	1		R -
2	TIME RELATED COSTS				
2.1	The Contractor shall allow for all time related Preliminary and General cost relating to this project for the complete duration of the Contract, these costs shall include for all, but not necessary limited , site supervision and security	Weeks	16		R -
3	Site Survey				
	Existing Services				
3.1	Supply or hire of specialist equipment to detect electrical services	Sum	1		R -
3.2	Excavation by hand in soft material to expose existing services	m³	10		R -
3.3	As-Built survey of the installed underground services	Sum	1		R -
4	ACCOMMODATION OF TRAFFIC				
4.1	Provision of temporal signs, barricades, warning signs, cones, drums and command signs including flagmen including managing of the traffic for the duration of the project.	Sum	1		R -
5	SITE CLEARANCE				
5.1	Remove stockpiled non contaminated G5 material to be used as base material for parallel parking bays and excess material on the road surface and sidewalks and spoil of site at a register municipal dumping site.	m³	463		R -
5.2	Clear and grub site vegetation and dump at a registered municipal dumping site	m²	1141		R -
5.3	Remove trees and tree stumps with a girth of 0.1m up to 0.5m and dump at a registered municipal dumping site	No	10		R -
				Carried Forward	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
				Brought Forward	**R -**
6	DEMOLITION				
6.1	Demolish the following and spoil of site at a registered municipal dumping site				
6.1.1	Transfer existing electrical supply 3 - phase electrical supply into a mini kiosk complete with CoC.	Sum	1		R -
6.1.2	Demolition existing electrical kiosk Brick and concrete as well as demolished slab including foundations and make level with existing surface level.	m³	15		R -
6.1.3	Demolition existing damaged brick and concrete ablution block including foundations	m³	30		R -
6.1.4	Allow for the demolition of 139 m long, 250 mm thick and 3m high reinforced concrete walls used as sand bins including footings and dispose all the sand and vegetation at a designated munispal dump site	m³	105		R -
6.1.5	Cut steel rails into 6m lengths using an oxy-fuel torch	m	400		R -
6.1.6	NB! Allow for the removal and stockpilling on site of 60kg/m rails mounted on concrete and wooden sleepers. The rails and sleepers to be separated for Transnet's scrap bank	m	852		R -
6.1.7	Relocate rail stop block and reinstall at new location.	No	2		R -
6.1.8	Removing all wooden and concrete sleepers with a 10Ton crane truck to Bellville Transnet's scrap bank	Item	1		R -
	Demolish 200mm THK concrete floor slab and steel stub columns and dispose rubble at registered municipal dump site.	m³	32		R -
7	ROAD CONSTRUCTION (A,B,C,D,J,I)				
7.1	Rip up existing wearing course up to 50mm thickness and spoil off site at a registered municipal dump site	m²	2613		R -
7.2	Rip existing base material to a depth of 155mm and spoil off site at a registered municipal dump site.	m³	406		R -
8	ROADBED				
8.1	Preparation and compaction of in-situ material subbase to a depth of 150 mm, including all testing required. Compact to 93% Mod AASHTO	m³	602		R -
9	BASE				
9.1	Construct base with 155 mm BTB with 4000 Mpa stiffness, 0.35 Poisson and Creterion: RSA Thick Asphalt Base Cat B, compacted to 88% Mod. AASHTO placed by machine operation	m³	406		R -
10	ASPHALT SURFACING				
10.1	Prime Coat, using MC 30 Sprayed at a nominal rate of 0.7 litres/m²	m²	4907		R -
10.2	Continuously graded medium asphalt surfacing (50/70 bitumen), using IV (a) hot mix, at 50mm thickness placed by machine operation	m²	4907		R -
				Carried Forward	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
				Brought Forward	**R -**
11.1	Excavate in all materials, select, backfill, compact and dispose all surplus and unsuitable material. Pipes with dia up to 300mm for depths:				
	a) 0,0m 1,0m	m	15		R -
	b) 1,0m 2,0m	m	37		R -
11.2	Provision of class B bedding compacted to 93% Mod AASHTO density (100% in sand) with material from commercial sources and excavated material				
	a) Bedding cradle (Commercial sources incl. 300mm pipe cover)	m³	9		R -
	b) Fill blanket	m³	32		R -
11.3	Supply , handle and lay, uPVC Class 34 heavy-duty drain pipes on flexible bedding. 250mm dia at 1:100 slope.	m	52		R -
11.4	Refurbish existing storm water catch pits / Manholes	No	21		R -
11.5	Remove existing damaged 450mm channel and dispose off site	m	636		R -
11.6	Supply and install V-Channel "Cape Concrete Channel C1" 25 Mpa or similar on both sides of the road.	m	1272		R -
11.7	Flush out and clean all the existing storm water line and manholes, dispose all rubble at a registered municipal dump site	Sum/d	5		R -
12	WATER MAIN				
12.1	Saw cut through asphalt	m	150		R -
12.2	160 x110 uPVC (SABS(966-1 Reducing Tee	No	2		R -
12.3	Supply, handle and lay 110 dia. Class 12 PVC(966-1) water main. Excavate in all material for trenches, select material for bedding, backfill, compact and dispose surplus or unsuitable material for pipes for depths 1m - 1.5m (800 mm pipe cover)	m	448		R -
12.4	Supply, handle and lay 160 dia. Class 12 PVC(966-1) water main. Excavate in all material for trenches, select material for bedding, backfill, compact and dispose surplus or unsuitable material for pipes for depths 1m - 1.5m (800 mm pipe cover)	m	260		R -
12.5	Supply, handle and lay 160 dia. Class 12 PVC(966-1) Sprinkler main. Excavate in all material for trenches, select material for bedding, backfill, compact and dispose surplus or unsuitable material for pipes for depths 1m - 1.5m (800 mm pipe cover)	m	484		R -
12.6	Supply, handle and lay 50 dia. HDPE water pipe. Excavate in all material for trenches, select material for bedding, backfill, compact and dispose surplus or unsuitable material for pipes for depths 0m - 1m (400mm pipe cover) complete will all fittings.	m	100		R -
12.7	Provide100mm Class B bedding and 300mm fill blanket from commercial sources	m³	287		R -
12.8	T-piece Connection to new underground fire hydrants	No	5		R -
12.9	Connection to existing water main 160mm dia.	No	4		R -
12.1	T-piece 50 dia. x110mm Saddle connection to building	No	7		R -
12.11	Installation of 110 dia. Gate valves to suit PVC pipe	No	11		R -
				Carried Forward	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
				Brought Forward	**R -**
12.12	Installation of 160 dia. Gate valves to suit PVC pipe	No	9		R -
12.13	Supply spare standpipe for fire hydrant with spanner	No	1		R -
12.14	Design and istall pressure regulating valves	No	2		R -
12.15	Anchor Blocks	m³	3		
13	ELECTRICAL SLEEVES				
13.1	Excavate 0.8-1.2m deep and Install 150 dia. Electrical HDPE sleeves	m	790		R -
13.2	Construct a draw pit, size 650mm x650mm x1000mm deep from single common brick with 50mm concrete base and cast iron cover flush to surface	No	15		R -
14	SEWER				
14.1	Repair damaged pressurise 60mm dia. Erven ware pipe with class 12 uPVC pipe complete with all fittings.	m	6		R -
14.2	Repair manhole benching at Area F and Area K pllaster the internal wall	No	4		R -
14.3	Replace all damaged existing manhole 450x600mm covers with heavy duty cement fibre frame and cover.	No	8		R -
14.4	Flush out and clean sewer lines and manholes, dump all rubble at a registered municipal dump site.	Sum/d	3		R -
14.5	Supply, lay and install 110mm dia. uPVC sewer pipe Excavate in all material for trenches, select material for bedding, backfill, compact and dispose surplus or unsuitable material for pipes for depths 1m - 1.5m (600 mm pipe cover), for future toilet connection at Area N.	m	37		R -
15	INTERLOCKING PAVERS (E, F, G, H)				
15.1	Rip existing surface and base material to a depth of 200mm and spoil off site at a registered municipal dump site.	m³	186		R -
15.2	Construct base with 100 mm BTB with 4000 Mpa stiffness, 0.35 Poisson and Creterion: RSA Thick Asphalt Base Cat B, compacted to 88% Mod. AASHTO placed by machine operation	m³	93		R -
15.3	Cut units to fit edge restraints	m	350		R -
15.4	Cast in-situ sunken 100mm edge kerb	m	350		R -
15.5	Construct 80mm 45 MPa type S-A interlocking CBP on 20mm sand bed	m²	1084		R -
16	INTERLOCKING PAVERS (K)				
16.1	Demolish 200mm thick concrete slab remove rubble to a registered municipal dump site	m²	14000		R -
16.2	Demolish 300mm thick stormwater brickwall to allow for precast heavy duty manhole cover	m²	17		R -
16.3	Supply and install precast heavy duty manhole cover 40 Mpa Reinforced Concrete slab (2600x2600x200mm THK) remove rubble to a registered municipal dump site.(2x2m opening size)	No	2		R -
				Carried Forward	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
				Brought Forward	**R -**
16.4	Demolish and trim to suit layer works level 1350x1350x750mm Thk base, 15000x300x450mm Thk ground beam, 5000x350x300mm Thk ground beam, 1425x750x400mm Thk base and 3000x2000x600mm Thk base reinforced concrete remove rubble to a registered municipal dump site.	m³	8		R -
16.5	Supply and install 40 Mpa 370x405x1200mm reinforced concrete U-channel including 40 Mpa 370x135x600mm reinforced concrete Square Grid for U-Channel connected into existing stomwater network.	m	240		R -
16.6	100mm subbase in-situ material rip and recompact to 95% Mod.AASHTO cement stabilised	m³	1642		R -
16.7	100mm G5 base, cement stabilised base course material compact to 95% Mod. AASHTO	m³	1642		R -
16.8	Cement stabilization @ 1,2%	t	58		R -
16.9	Cut units to fit edge restraints	m	685		R -
16.10	Cast in-situ sunken 100mm edge kerb	m	685		R -
16.11	Supply and lay 80mm 45 MPa type S-A interlocking CBP on 20mm sand bed	m²	16411		R -
16.12	Paint stop line road markings	No	5		R -
17	ASPHALT (M)				
17.1	Design and construct stormwaterline to collect water from the existing water channels and connect into the existing stormwater networks	Sum	1		R -
17.2	Saw cut and rip existing damaged road surface and base course, dispose rubble at registered municipal dump site.	m²	150		R -
17.3	Construct base with 150 mm BTB with 4000 Mpa stiffness, 0.35 Poisson and Creterion: RSA Thick Asphalt Base Cat B, compacted to 88% Mod. AASHTO placed by machine operation and re-align surface level to assist with water run-off.	m³	30		R -
17.4	Prime Coat, using MC 30 Sprayed at a nominal rate of 0.7 litres/m²	m²	350		R -
17.5	Continuously graded medium asphalt surfacing (50/70 bitumen), using IV (a) hot mix, at 50mm thickness placed by machine operation	m²	350		R -
17.6	Sweep road of debris and access material	Item	1		R -
18	ASPHALT (N)				
18.1	Demolish 200mm thick concrete slab to align with new surface levels remove rubble to a registered municipal dump site	m²	3268		R -
18.2	100mm subbase in-situ material rip and recompact to 95% Mod.AASHTO	m³	327		R -
18.3	Construct base with 150 mm BTB with 4000 Mpa stiffness, 0.35 Poisson and Creterion: RSA Thick Asphalt Base Cat B, compacted to 88% Mod. AASHTO placed by machine operation	m³	490		R -
18.4	Prime Coat, using MC 30 Sprayed at a nominal rate of 0.7 litres/m²	m²	3268		R -
18.5	Continuously graded medium asphalt surfacing (50/70 bitumen), using IV (a) hot mix, at 50mm thickness placed by machine operation	m²	3268		R -
				Carried Forward	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
				Brought Forward	**R -**
19	ASPHALT (O)				
19.1	150mm base in-situ material rip and recompact to 95% Mod.AASHTO cement stabilised	m³	75		R -
19.2	Prime Coat, using MC 30 Sprayed at a nominal rate of 0.7 litres/m²	m²	755		R -
19.3	Continuously graded medium asphalt surfacing (50/70 bitumen), using IV (a) hot mix, at 50mm thickness placed by machine operation	m²	755		R -
20	STORMWATER OUTFLOW (P)				
20.1	Design and construct storm water outflow connection at Area P complete with customised grating to prevent debris and rubble from clogging the outflow.	sum	1		R -
20.2	Re-route electrical cables through a sleeve by above the outflow channel and issue a CoC for the electrical work.	sum	1		R -
21	ADDITIONAL WORK				
21.1	Paint security guardhouse walls with 2 coats of acrylic PVA ivory flash colour.	m²	24		R -
21.2	Supply and install 1800x700x1100mm office counter with 4 office chairs on wheels	Sum	1		R -
21.3	New automatic operated high Volume "Centurion" or similar electric boom gates (4m arm)	No	2		R -
21.4	Supply and install 1080p, 4 channel CCTV camera system with WiFi connectivety	No	1		R -
21.5	Supply and install 9m x 2.4 m high heavy duty slidding Hot dipped galvanised to match existing gates, complete with suitable motor with anti-tamper cage and all the fittings and electrical supply.	Sum	1		R -
21.6	Modify vibracrete perimeter fence to accommodate the sliding gate rail.	Sum	1		R -
21.7	Modify and install 2m x 2.4m high Hot dipped galvanised pedestrian gate from existing Swing gate.	No	1		R -
21.8	New Tenant Pylons complete with concrete base as per attached drawing.	Sum	1		R -
21.9	Refurbish and reconnect existing street light and replace the light bulbs with energy saving LED fittings.	No	4		R -
21.10	**Communal Toilet:** Remove and replace all existing hand wash basins complete with all the necessary fittings, plugs, grids and T02SABS pillar taps (Cold water only)	No	2		R -
21.11	Remove existing toilet pans, waste fittings and flush masters.	No	2		R -
21.12	Replace toilet pans complete with all fittings	No	2		R -
21.13	Install flush master systems on all toilet pans.	No	2		R -
21.14	Install porcelain flat back, push button flush valve urinals complete with all the fixtures as per manufacturer's specs.	No	1		R -
21.15	Tile wall and floor with white porcelein tiles	m²	55		R -
21.16	fit all the toilet accessories ie. Toilet paper holders and above basin mirror	Sum	1		R -
				Carried Forward	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
				Brought Forward	**R -**
21.17	Paint Toilet burglar gates with black steel paint and clean an varnish wooden doors complete with toilet signs (Male and female)	Sum	1		R -
21.18	Paint window frames and replace broken window panes	Sum	1		R -
21.19	Clean all face brick and plastered wall with high pressure water jet to remove all grime and dirt.	m²	26		R -
21.20	Replace damaged sewer pumphouse door with a similar hardwood door complete with locks and varnish frame and door.	Sum	1		R -
22	ROAD SIGNS AND MARKINGS				
22.1	Install stop signs	No	6		R -
22.2	Install speed hump signs	No	2		R -
22.3	paint stop lines	No	6		R -
22.4	Paint parallel parking bays at Area A and J	m²	665		R -
				SECTION A TOTAL	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
	MINOR REFURBISHMENT WORKS OF PROMAT BUILDING				
1	Preliminary & General				
1.1	The Contractor shall allow for all fixed cost Preliminary and general items relating to this project for the complete duration of the contract, these costs shall include for all, but necessary limited to, site supervision and security	Month	1		R -
1.2	Structural Engineer / Technologist	Hr	30		R -
1.3	Electrician	Hr	30		R -
2	Demolitions				
2.1	Demolish existing concrete floor slab in portions between RC beams.250mm THK. Complete as per Aurecon demolition specification, including cart away to spoil site	m²	46		R -
2.2	Remove existing doors and door frames	No	3		R -
2.3	Remove by mechanical means 10mm THK plaster and cart to spoil.	m²	25		R -
3	Interior work (To be read in conjunction with LE1, LE5,LE13A & LE15)				
3.1	Mild-steel bars in the following: Slab	t	0.10		R -
3.2	High- tensile steel bars in the following: Slab	t	1		R -
3.3	Class 30 Mpa/ 19mm concrete in slab	m³	6		R -
3.4	Precast RC slab: Rib and block 200THK slab with high block and 50 toppings with 193 mesh installed complete including screed	m²	66		R -
3.5	Concrete Repair: Apply two coats Bonding Agent. Apply 10mm concrete repair mortar to level surface to attach angle. Complete including preparation.	m²	20		R -
3.6	Apply carbon fibre re- inforced polymer laminates plates H514/50 to underside of existing slab to manufacturers' specification. Complete including preparation.	m	12		R -
3.7	100x75x8THK galvanised mild steel angle including expanded metal welded to underside of bottom face, bolted to existing concrete face with M12 (galvanised) chemical anchors at 300centres. Complete	m	50		R -
3.8	Doors :Refer to drawing 108981-D01 as per door schedule drawing Type D	No	3		R -
3.9	Windows :Refer to drawing 108981-D01 including glazing as per window schedule drawing Type W	No	2		R -
3.10	Type WA	No	5		R -
3.11	Ceilings: 10mm Ceiling Skim	m²	66		R -
3.12	60mm Cornices installed complete	m	40		R -
3.13	Ironmonger: Burglar Bars, refer to drawing 108981-D01. Burglar bar schedule	No	1		R -
3.14	Plaster: 12mm plaster finish on brick work	m²	90		R -
3.15	Paintwork: Paint internal walls with 2 coats acrylic PVA Ivory flash or similar Including plaster primer. Complete	m²	305		R -
				Carried Forward	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
				Brought Forward	**R -**
3.16	Paint ceilings with 2 coats sands acrylic PVA Ivory flash or similar including plaster primer. Complete	m²	178		R -
3.18	Fully installed complete industrial carpet	m²	132		R -
4	Electrical Work				
4.1	Allow for all costs and expenses in connection with the following general items: Liaison with Local Town council, Telkom, submission of ECA registration	Sum	1		R -
4.2	On-site liaison with other disciplines	Sum	1		R -
4.3	As build drawings for new electrical installation	Sum	1		R -
4.4	Certificate of Compliance for complete installation.	Sum	1		R -
4.5	12 month guarantee period on equipment and installation	Sum	1		R -
4.6	Final phase balancing on DB's	Sum	1		R -
4.7	Verification of final lighting levels with engineer	Sum	1		R -
4.8	Testing and commissioning of the complete installation	Sum	1		R -
4.9	Low Voltage- Electrical Installation. Allow for all costs and expenses in connection with the following general items: Remove existing socket outlet, telephone outlets, patch and panels etc. of current installation	Sum	1		R -
4.10	New installation Lighting and Ventilation 2x26 W CFL bulkhead: Supply	No	3		R -
4.11	Installation	No	3		R -
4.12	2x54W T5 Open channel florescent fittings C\W lamps: Supply	No	6		R -
4.13	Installation	No	6		R -
4.14	Ceiling Fan CW controller: Supply	No	6		R -
4.15	Installation	No	6		R -
4.16	Outlets: Power skirting Modular Outlets complete with cradles etc. 16Amp 3-pin250V single switched socket outlet: Supply	No	22		R -
4.17	Installation	No	22		R -
4.18	Surface Mounted Socket outlets complete with galvanised, epoxy powder coated 4x4 extension boxes galvanised epoxy powder coated cover plates , outlets, glands etc. 16Amp 3-pin 250V double switched socket outlet: Supply	No	2		R -
4.19	Installation	No	2		R -
4.20	Switches: Industrial flush mounted 16A light switches complete with boxes, cover plates switches etc.; Similar or equivalent to Crab tree Classic Range: 1 Lever, 3-Way Supply	No	3		R -
4.21	Installation	No	3		R -
4.22	2 Lever, 2-Way Supply	No	1		R -
4.23	Installation	No	1		R -
				Carried Forward	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
				Brought Forward	**R -**
4.24	Circuit breakers: 5kA,20A, Single phase	No	6		R -
4.25	Installation	No	6		R -
4.26	5kA,63A, 2 pole Earth leakage protection: Supply	No	1		R -
4.27	Installation	No	1		R -
4.28	Wire ways: Supply and install conduit, PVC conduit surface mounted to brickwork, concrete, steel or reticulated in roof, or cast into concrete or chased into brickwork or concrete. Complete conduit boxes, bends, couplings, glue etc. 25mm Diameter	m	180		R -
4.29	Wiring: Supply and install single core PVC insulated house wire 2.5mm²	m	220		R -
4.30	4mm	m	290		R -
4.31	Single core PVC insulated earth wire 2.5mm²	m	510		R -
4.32	**Cable management:** Double compartment power skirting outside dimensions 55mmx 160mm minimum. Straight length with cover	m	60		R -
4.33	Fittings to double compartment power skirting: Internal Elbow	No	8		R -
4.34	External Elbow	No	8		R -
4.35	Flat Elbow	No	8		R -
4.36	Flat Tree	No	8		R -
4.37	End Cap	No	5		R -
4.38	Supply and install of medium duty hot dipped galvanised welded wire mesh cable tray , 50x50mm base Aperture,25x50mm side Aperture, complete with splices and couplers , clamps and threaded rods, walls etc. as per drawings and specifications: 150x50mm (WxH), Ø 4mm wire straight length	m	180		R -
4.39	Labelling of Circuits and Equipment	Sum	1		R -
5	Foyer, Passages, Toilet upgrades and Exterior Work				
5.1	**Waterproof Face brick walls:** Clean all face brick and plastered wall with high pressure water jet to remove all grime and dirt.	m²	1189		R -
5.2	Fill cracks with masonry patching plaster or similar	m²	190		R -
5.3	Waterproof walls with approved water repellent or similar clear sprayable sealer. Apply 3 coats	m²	3567		R -
5.4	Seal all-round window frames with Silicon or similar product.	No	112		R -
5.5	Remove external cast iron holder bats on the sencond floor stair case wall	Item	1		R -
5.6	Replace all broken window panes (616x485mm to be verified on site)	ea	4		R -
5.7	**Painting:** Paint internal passage, kitchen and toilet walls with 2 coats of acrylic PVA ivory flash or similar including plaster primer	m²	393		R -
5.8	Paint burglar windows with silver aluminium paint	m²	236		R -
5.9	Paint main entrance security gate with steel paint	m²	9		R -
				Carried Forward	**R -**

Item No	Description	Unit	Quantity	Rate	Amount
				Brought Forward	**R -**
5.10	Supply and fit door closer on the main entrance door	No	2		R -
5.11	Replace damaged main entraince tiles porcelain complete with similar skirting	m²	2		R -
5.12	Paint main entrance floor with floor paint "stoep enamel" or similar	m²	9		R -
5.13	Supply and install 1080p, 4 channel CCTV camera system with WiFi connectivety	No	1		R -
5.14	Supply and install gate "Centurion" or similar gate motor with full kit incl. base, anti-tamper cage and electric supply.	No	1		R -
5.15	Supply and install hardboard medium duty door and varnish to suit existing door	No	1		R -
5.16	Remove back passage door and replace with an security fire escape door including a fire alarm sensor and a breakglass with key	No	1		R -
5.17	**Perimeter fence:** Repair damaged bricks and palisade fence	Sum	1		R -
5.18	Repair damage main entraince guard rail and cold galvinise welded hot dipped galvinised members	Sum	1		R -
5.19	Supply and install 1.5m high galvanised palisade fence. Complete with shear bolts or welded.	m	70		R -
5.2	**Parking area:** Design one-way parking system and paint all parking bays and allow for 2 PWD parking bays infront of the building at Area R	m²	2275		R -
5.21	Remove all the weed and apply weed herbicide on the paving diposed all rubble at a registered municipal dump site	Sum	1		R -
5.22	Repair damaged side walk interlocking paving	m²	2		R -
5.23	Repair damaged concrete apron with 25 Mpa concrete including saw cutting and removing damaged concrete and dispose rubble at registered municipal dump site.	m²	1		R -
5.24	Remove all weeds and apply environmental safe weed herbicide on existing paving, dispose rubble at registered municipal dump site	m²	2275		R -
				SECTION B TOTAL	**R -**

	FINAL SUMMARY				
	SECTION A TOTAL				R -
	SECTION B TOTAL				R -
	SUB-TOTAL				R -
	Carried to Form of Offer and Acceptance (Excl. VAT)				**R -**