

Item No	Unit	Quantity	Rate	Amount
SECTION NO. 1				
BILL NO. 1				
PRELIMINARIES				
NOTES				
i) The agreement is to be the FIDIC Conditions of Contract				
ii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary				
iii) Tenderers are strongly advised to price each Item in the Preliminaries Bill. Any item not priced will be assumed that its cost has been included elsewhere in the tender documents				
iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading				
v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")				

Carried to Collection				
PRELIMINARIES AND GENERAL ITEMS				
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Item No		Unit	Quantity	Rate	Amount
	<u>SECTION "A" FIDIC CONDITIONS OF CONTRACT</u>				
	<u>The Contractor shall refer to the conditions herein before mentioned for the intent and meaning of the clause 1 to 62 hereafter and allow whatever costs he may consider necessary against each clause together with Sub-Clauses in amplification of name.</u>				
	General				
A	Clause 1 - Definitions		Item		
B	Clause 2 - Interpretation		Item		
C	Clause 3 - Language and Law		Item		
D	Clause 4 - Project Managers Decisions		Item		
E	Clause 5 - Delegation		Item		
F	Clause 6 - Communications		Item		
G	Clause 7 - Subcontracting		Item		
H	Clause 8 - Other Contractors		Item		
J	Clause 9 - Personnel		Item		
K	Clause 10 - Employers and Contractors Risks		Item		
L	Clause 11 - Employers Risks		Item		
M	Clause 12 - Contractors Risks		Item		
N	Clause 13 - Insurance		Item		
P	Clause 14 - Site Investigation Reports		Item		
Q	Clause 15 - Queries about the Contract Data		Item		
R	Clause 16 - Contractor to Construct the Works		Item		
S	Clause 17 - The Works to Be Completed by the Intended Completion Date		Item		
T	Clause 18 - Approval by the Project Manager		Item		
	Carried to Collection			K	
	PRELIMINARIES AND GENERAL ITEMS				
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Item No		Unit	Quantity	Rate	Amount
A	Clause 19 - Safety		Item		
B	Clause 20 - Discoveries		Item		
C	Clause 21 - Possession of the Site		Item		
D	Clause 22 - Access to the Site		Item		
E	Clause 23 - Instructions, Inspections and Audits		Item		
F	Clause 24 - Disputes		Item		
G	Clause 25 -Procedure for Disputes		Item		
H	Clause 26 - Replacement of Adjudicator		Item		
	Time Control				
J	Clause 27 - Program		Item		
K	Clause 28 - Extension of the Intended Completion Date		Item		
L	Clause 29 - Acceleration		Item		
M	Clause 30 - Delays Ordered by the Project Manager		Item		
N	Clause 31 - Management Meetings		Item		
P	Clause 32- Early Warning		Item		
	Quality Control				
Q	Clause 33 - Identifying Defects		Item		
R	Clause 34 - Tests		Item		
S	Clause 35 - Correction of Defects		Item		
T	Clause 36 - Uncorrected Defects		Item		
	Cost Control				
U	Clause 37 - Bill of Quantities		Item		
V	Clause 38 - Changes in the Quantities		Item		
W	Clause 39 - Variations		Item		
	Carried to Collection			K	
	PRELIMINARIES AND GENERAL ITEMS				
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Item No		Unit	Quantity	Rate	Amount
A	Clause 40 - Payments for Variations		Item		
B	Clause 41- Cash Flow Forecasts		Item		
C	Clause 42 - Payment Certificates		Item		
D	Clause 43 - Payments		Item		
E	Clause 44 - Compensation Events		Item		
F	Clause 45 - Tax		Item		
G	Clause 46 - Currencies		Item		
H	Clause 47 - Price Adjustment		Item		
J	Clause 48 - Retention		Item		
K	Clause 49 - Liquidated Damages		Item		
L	Clause 50 - Bonus		Item		
M	Clause 51 - Advance Payment		Item		
N	Clause 52 - Securities		Item		
P	Clause 53 - Dayworks		Item		
Q	Clause 54 - Cost of Repairs		Item		
	Finishing the Contract				
R	Clause 55 - Completion		Item		
S	Clause 56 - Taking Over		Item		
T	Clause 57 - Final Account		Item		
U	Clause 58 - Operating and Maintenance Manuals		Item		
V	Clause 59 - Termination		Item		
W	Clause 60 - Payment upon Termination		Item		
X	Clause 61 - Property		Item		
Y	Clause 62 - Release from Performance		Item		
	Carried to Collection			K	
	PRELIMINARIES AND GENERAL ITEMS				
	PRELIMINARIES AND GENERAL ITEMS				
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Item No		Unit	Quantity	Rate	Amount
	<p align="center">CONTRACTING AND OTHER PARTIES</p> <p>Employer: UNDP</p> <p>Agents service:Architect</p> <p>Agent (1) A+ Urban Technics</p> <p>Postal address: LUSAKA Code</p> <p>Tel: 260-211-238150 and 260-211-238102</p> <p>Agents service:Quantity Surveyor</p> <p>Agent (2) Nkonki and Associates Zambia Limited</p> <p>Address: 6th Floor Rooms 605 & 606 Godfrey House, Kabelenga Road, Lusaka</p> <p>Cell: +260977819107</p> <p>E-mail: fsimeja@nkonkiconsulting.co.za</p> <p align="center"><u>CONTRACT DETAILS</u></p> <p>Works Description:</p> <p>The works in this contract is the construction of Incinerator infrastructure and associated external works</p> <p>Date on which possession of the site is intended to be given: to be advised</p> <p>Period for the commencement of the works after the contractor takes possession of the site ...14..... working days</p> <p>Completion in sections are required</p> <p align="right">No</p> <div> <div>Carried to Collection</div> <div>K</div> </div> <p>PRELIMINARIES AND GENERAL ITEMS</p> <p>PRELIMINARIES AND GENERAL ITEMS</p> <p>Prepared Nkonki & Associates (Z) Ltd.</p> <p>Registered Quantity Surveyors</p>				

Item No		Unit	Quantity	Rate	Amount
	Intended date of practical completion and the penalty per calender day for the whole of the works: Practical Completion: TBA Penalty per Day: TBA				
A	Dispute resolution Arbitration/Litigation Fixed		Item		
	Arbitration rules as recommended by Zambia Association of Arbitrators				
	<u>INSURANCES</u>				
B	Liability of the Employer Insurance is required and the Amount of indemnity for any occurrence or series of occurrences arising out of one event shall be ZMW		Item		
C	<u>Insurance for the works</u> Contract works insurance to be effected by Contractor: For the amount of: ZMW With a deductible of: ZMW..... Fixed		Item		
		Time	Item		
D	Public liability insurance to be effected by Contractor For the amount of: ZMW With a deductible of: ZMW..... Fixed Time		Item Item		
	Carried to Collection			K	
	PRELIMINARIES AND GENERAL ITEMS				
	PRELIMINARIES AND GENERAL ITEMS				
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Item No	Unit	Quantity	Rate	Amount
<u>SECTION "B" SPECIFIC PRELIMINARIES</u>				
(Applicable to the whole of the Work)				
Note: A rate shall be entered in the amount column for each item. Items which are included should have the word "included" written in the appropriate column. All items not priced shall be deemed to be included elsewhere in the unit rates and no claim in this regard shall be entertained				
<u>FIXED CHARGE AND VALUE RELATED ITEMS</u>				
A	Contractual requirements		SUM	
<u>Comprehensive breakdown of any cost claimed under this item needs to be provided with the tender</u>				
<u>Establishment of Facilities on the Site</u>				
<u>Facilities for Engineer</u>				
B	Furnished offices (in No 2)		SUM	
C	Telephone		SUM	
D	2370 x 2640mm Name boards - refer to drawing (In No. 2)		SUM	
<u>Facilities for Contractor</u>				
E	Offices and storage sheds		SUM	
F	Workshops		SUM	
G	Laboratories		SUM	
H	Living accommodation		SUM	
J	Ablution and latrine facilities		SUM	
K	Tools and equipment		SUM	
L	Water supplies, electric power and communications		SUM	
M	Dealing with water		SUM	
N	Dealing with Pollution		SUM	
Carried to Collection			K	
PRELIMINARIES AND GENERAL ITEMS				
PRELIMINARIES AND GENERAL ITEMS				
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Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
A	Access to the site			SUM	
B	Plant, including craneage, scaffolding, etc			SUM	
C	Other fixed charge obligations			SUM	
D	Provision of As-built drawings			SUM	
E	Removal of site establishment			SUM	
	<u>Health and Safety</u>				
F	Quality Assurance Plan to be handed over to engineer for approval prior to site handover (QC/QA)		Item		
G	Preparation of Health and Safety Plan		Item		
H	Health and Safety Training		Item		
J	Personal Protective Clothing and Equipment		Item		
K	Risk assessment at commencement of project		Item		
L	Fences, Signs and Barricades		Item		
M	Establishment of Safety Administration		Item		
N	Other Health and Safety Fixed-charged Obligations		Item		
	<u>TIME RELATED ITEMS</u>				
P	Contractual requirements (Calculated over contract period)			SUM	
	<u>Operation and Maintenance of Facilities on Site, for Duration of Construction, (unless otherwise stated)</u>				
	<u>Facilities for Engineer</u>				
Q	Furnished offices (In No 2)			SUM	
R	Telephone			SUM	
S	2370 x 2640mm Name boards - refer to attached sketch. (In No. 2)			SUM	
T	Survey assistants and materials			SUM	
	Carried to Collection				
	PRELIMINARIES AND GENERAL ITEMS				
	PRELIMINARIES AND GENERAL ITEMS				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Facilities for Contractor</u>				
A	Offices and storage sheds			SUM	
B	Workshops			SUM	
C	Laboratories			SUM	
	<u>DAYWORKS</u>				
D	Living accommodation			SUM	
E	Ablution and latrine facilities			SUM	
F	Tools and equipment			SUM	
G	Water supplies, electric power and communications			SUM	
H	Dealing with water			SUM	
J	Pollution contro			SUM	
K	Access			SUM	
L	Plant			SUM	
M	Supervision for duration of construction			SUM	
N	Company and head office overhead costs for duration of construction			SUM	
P	Other time related obligations (Calculated over contract period)			SUM	
	<u>Health and Safety</u>				
Q	Comply with Approved Quality Assurance Plan and requirements		Item		
R	Implementation and maintenance of Health and Safety Plan		Item		
S	Provision of Construction Safety Officer(s)		Item		
T	Implementation and maintenance of Training		Item		
U	Maintenance of Personal Protective Clothing and Equipment		Item		
V	Interim task related risk assessment		Item		
	Carried to Collection			K	
	PRELIMINARIES AND GENERAL ITEMS				
	PRELIMINARIES AND GENERAL ITEMS				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

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Item No		Unit	Quantity	Rate	Amount
	<u>Preambles</u>				
	(i) Clearing the site is measured in the external works section of these Bills of Quantities.				
	(ii) The substructure has been measured up to and including the surface slab.				
	(iii) Unless otherwise stated all excavations shall be in "pickable materials" as described.				
	<u>SUBSTRUCTURE - ALL PROVISIONAL</u>				
	<u>Excavations as Described</u>				
A	Excavate oversite average 150 mm deep to remove top soil and wheel spread and level on site where directed.	m2	55		
B	Excavate for foundation trench exceeding 0.25 but not exceeding 1.50 metres and get out	m3	14		
C	Extra over all types of excavations for excavating in hardrock.	m3	2		
D	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	7		
E	Allow for keeping excavations free from general water		Item		
F	Allow for planking and strutting		Item		
	<u>Hardcore or the like</u>				
G	Compact the Sub base Material to 93% Modified AASHO and leave ready to receive hardcore filling	m2	43		
H	Hardcore compacted to 95% Modified A.A.S.H.O.	m3	13		
	<u>Disposal</u>				
J	Load and transport surplus excavated materials to an authorized disposal site.	m3	7		
	<u>Termite Treatment as Described</u>				
K	Ant proofing as described to exposed surfaces of excavations, top of hardcore bed and foundation walls.	m2	109		
	Carried to Collection			K	
	OFFICE				
	SUBSTRUCTURE				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	Polythene membrane under surface slab as described				
A	500 gauge polythene sheeting damp proof course laid on hardcore with 150 mm side and end laps.	m ²	49		
	Reinforced concrete Class 25 as described, tamped around reinforcement in:-				
B	In Foundations	m ³	3.6		
C	In 100 mm Surface bed laid on damp proof membrane (measured separately).	m ²	49		
D	E.O. ditto for thickening of slab average width 200mm x 100 mm thick	m	18		
	Plain concrete Class 15				
E	In 50mm blinding	m ²	18		
	Mesh fabric steel reinforcement to concrete and fixing as described including 250 mm side and end laps and bending cutting and notching				
F	One layer of conforce '86' mesh reinforcement in surface slab.	m ²	49		
	Sawn formwork as described to:-				
G	To edge of surface slab exceeding not exceeding 100mm wide	m	31		
	Hollow concrete blockwork in cement mortar 1:3 as described, filled with and including class 15 mass concrete				
H	200 mm Wall.	m ²	24		
	Brickforce reinforcement as described every course				
J	200 mm Wall.	m	120		
	One coat external wood float trowelled plaster finish on the following:				
K	Block walls, small part on concrete to plinth	m ²	18		
	Carried to Collection			K	
	OFFICE SUBSTRUCTURE Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

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SUBSTRUCTURE

COLLECTION

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SUBSTRUCTURE
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Item No		Unit	Quantity	Rate	Amount
	<u>BRICKWORK AND BLOCKWORK</u>				
	<u>Blockwork in hollow concrete blocks load bearing (crushing strength not less than 3.5N/mm2) in cement mortar (1:4) as described .</u>				
A	200 mm wall	m2	78		
B	100 mm Ditto.	m2	46		
C	Rough splay cutting to 200 mm wall.	m	22		
D	Rough raking cutting to 200 mm wall.	m	10		
E	Extra-over hollow blockwork for filling with C15 concrete at eaves	m	22		
	<u>Brickforce reinforcement as described every third course</u>				
F	To 200 mm wall in superstructure walls	m	156		
G	To 100 mm wall in superstructure walls	m	82		
	<u>Three ply bituminous felt damp proof course as described</u>				
H	To 200 mm wall.	m	30		
J	To 100 mm wall.	m	18		
	<u>Air bricks and fixing - All Provisional</u>				
K	200 mm x 200 mm Terra cotta or precast concrete air brick of approved type with copper gauze backing and building into 200 mm wall and render around in cement mortar	No	13		
	Carried Forward to Summary of Section No. 2			K	
	OFFICE				
	BRICKWORK AND BLOCKWORK				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

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Item No		Unit	Quantity	Rate	Amount
	<u>CARPENTRY, JOINERY AND IRONMONGERY</u>				
	<u>Carpentry</u>				
	<u>Sawn soft wood as described shall be pre-treated with two coats of creosote wood preservative and have a minimum bending stress of 8N/mm2 or South African pine grade 8.</u>				
	<u>All truss joints to be gang nailed by an approved timber truss fabricator</u>				
A	230mm x 25mm fascia and barge boards	m	36		
B	150mm x 50mm wallplate	m	30		
C	150 mm x 50 mm in trusses	m	327		
D	50mm x 50mm purlins	m	210		
E	50mm x 50mm brandering	m	215		
	<u>Joinery</u>				
	<u>Rose wood Doors and Door Frames</u>				
	<u>Exterior quality solid core flush door with 6mm hardwood lipping all round and covered with plywood suitable for painting</u>				
F	44mm door size 825mm wide x 1960mm high 001D01, 004D01	No	2		
	<u>Rosewood lalminated timber flush door</u>				
G	44mm thick door size 725mm wide x 1960mm high 002D01, 002D02, 003D01, 005D01, 006D01, 007D01	No	6		
	<u>Ironmongery</u>				
	<u>Ironmongery to be as per Ironmongery schedule and is to be fitted in strict accordance with the maunfacturers' specifications as described</u>				
H	Lockset as "Dorma" with brushed finish handles	No	8		
J	Rubber door stops	No	8		
	Carried to Collection			K	
	OFFICE				
	CARPENTRY, JOINERY AND IRONMONGERY				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
A	150 mm diameter chromium plated towel ring to Architects approval	No	1		
B	Dorma DHC-SS-031B Stainless Steel hat and coat hook with rubber buffer.	No	1		
Carried to Collection				K	
OFFICE CARPENTRY, JOINERY AND IRONMONGERY Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors					

CARPENTRY, JOINERY AND IRONMONGERY

COLLECTION

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OFFICE
CARPENTRY, JOINERY AND IRONMONGERY
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Registered Quantity Surveyors

K

Item No		Unit	Quantity	Rate	Amount
	METAL WORK				
	<u>Monarch pressed metal door frame or other equal and approved, apply red oxide primed and fixing as described</u>				
A	Frame double rebate size 900 mm wide x 2000 mm high of 2M profile ditto 001D01, 004D01	No	2		
B	Frame single rebated size 800mm wide x 2300mm high of 1M profile with fanlight 002D01, 002D02	No	2		
C	Frame single rebated size 800mm wide x 2000mm high of 1M profile 003D01, 005D01, 006D01, 007D01	No	4		
	<u>ALUMINIUM</u>				
	The contractor is to make due allowance in his prices for complying with the following requirements.				
	<u>Preliminary and Shop Drawings:</u>				
	The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.				
	After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.				
	<u>Fixing:</u>				
	The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all neccessary steel brackets, rails, timber grounds and sub-frames, including all neccessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.				
	<u>Deflection of structure:</u>				
	The contractor is advised to make adquate provision for the design deflection of the structure.				
	Carried to Collection			K	
	OFFICE METAL WORK Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<p><u>Tolerances:</u></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architec's details.</p> <p><u>Protection:</u></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><u>Cleaning:</u></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p><u>WINDOW FRAMES</u></p> <p><u>Natural Anodised Aluminium Window frames, framing ,cutting, pinning lugs to aluminium frame including glazing with 6.38mm thick solarshield safety glass all ironmongery as specified by the Architect</u></p>				
A	Aluminium window frame for opening of 2000 mm width x 1500 mm height with overall and complete with suitable locking mechanism all as per Architects' details; complete with 6.38 mm laminated shutter proof solarshield glass - 001W01, 001W02, 002W01, 002W02	No	4		
B	Aluminium window frame for opening of 1200 mm width x 600 mm height with overall and complete with suitable locking mechanism all as per Architects' details; complete with 6.38 mm laminated shutter proof solarshield glass - 003W01	No	1		
C	Aluminium window frame for opening of 600 mm width x 600 mm height with overall and complete with suitable locking mechanism all as per Architects' details; complete with 6.38 mm laminated shutter proof solarshield glass - 005W01, 006W02, 007W01	No	3		
	Carried to Collection			K	
	OFFICE				
	METAL WORK				
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	Registered Quantity Surveyors				

METAL WORK

COLLECTION

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OFFICE
METAL WORK
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Item No		Unit	Quantity	Rate	Amount
	<u>PLUMBING INSTALLATIONS (ALL PROVISIONAL)</u>				
	<u>General</u>				
	All pipework in this section is measured to the external face of the building.				
	<u>Soil & Waste Water Drainage</u>				
	<u>Supply and install the following sanitary installation materials complete with unplasticised PVC (uPVC) pipes and fittings, solvent welded and push fit systems, including cutting and wastage, fixing and connecting in accordance with the manufaturers instructions as Marley (SA Pty) Ltd or equal and approved</u>				
A	110 mm diameter vent pipe fixed to wall with holder butts.	m	2		
B	110mm diameter inspection bend.	No	1		
C	110mm diameter plain bend.	No	1		
D	110mm diameter inspection tee.	No	1		
E	110 mm Diameter x 500mm Long Socket Pan Connector	No	1		
F	110mm diameter sok 'n' vent valve (to top of vent pipe)	No	1		
	<u>UPVC Marley plastic soil pipes and laying as described</u>				
	<u>Pipe Trenches</u>				
G	40mm diameter pipe in wall	m	2		
	<u>Extra over pipework for:-</u>				
H	40mm diameter bend with screw down inspection eye.	No	1		
J	50mm diameter bend with screw down inspection eye.	No	1		
	Carried to Collection			K	
	OFFICE PLUMBING INSTALLATION Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Sanitary Fittings and fixing as described</u>				
	Notes:- The rates for sanitary fittings are to include for assembling and fixing in accordance with the manufacturer's instructions and all cutting, pinning or plugging to walls and jointing as described.				
A	<u>Water Closet Suite-</u> White Vitreous China Closed Coupled 90 degrees outlet closed rim washdown pan and matching 7 litre oush button top dual flush cistern complete with lid and fitments as TUSKANY by VAAL Potteries or equal and approved; including 13mm angle regulating valve and 13mm flexible connector.	No	1		
B	<u>Wash Hand Basins-</u> Oval underslung vanity basin with integrated overflow from white vitreous chind (PRESIDENT by VAAL or equal and approved) Vaal Potteries vitreous china 580 x 410mm (code) "Magnolia" range with single taphole and pedestal complete with 13mm basin mixer-one hole single lever as 'Cobra Gala' code (GA-650) including matching pop waste and mounting kit, plug, chain and stay . 32 x 32mm Bottle trap; all c.p , with 75mm deep seal, inlet screwed, female,outlet male as Cobra (code 345/40)' , two flexible connectors and a pair of 13mm angle regulating valves.32mm Bottle trap adaptor, Chrome plated as Cobra (code C-345/1) for40mm uPVC pipe.	No	1		
C	900mm x 900mm steel shower tray, incuding 50mm brass shower trap with chromium plated slotted grating	No	1		
D	300 series 1100 x 535 single end bowl; single drainer kitchen sink as 'Citimetal' or 'Frankie' complete with spazio plumbing kit and Cobra Kitchen sink mixer	No			
	<u>BRASSWARE</u>				
E	Glazed ceramic toilet roller holder (recessed type) or similar approved by Cobra	No	1		
F	Glazed ceramic toilet roller holder (recessed type) or similar approved by Cobra	No	1		
G	13mm diameter Shower mixers as 'Cobra' ditto	No	1		
	<u>Cold and Hot Water Installations</u>				
	Carried to Collection			K	
	OFFICE PLUMBING INSTALLATION Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Service and overflow pipework in Chlorinated Polyvinyl Chloride Pipework including fixing and jointing as described.</u>				
A	25mm ditto	m	10		
B	19mm diameter pipe	m	10		
C	13mm diameter ditto	m	8		
	<u>Extra over pipework for:-</u>				
D	19mm diameter bend	No	1		
E	19mm x 13mm x 19mm diameter tee	No	1		
F	25mm x 19mm reducing bush	No	1		
G	19mm x 13mm reducing bush	No	1		
	<u>Copper Service Connectors 300 mm long, bent as required including brass unions both ends for and jointing to steel pipe and inlet of sanitary fitting</u>				
H	13 mm diameter	No	5		
	<u>Valves and jointing and fixing as described</u>				
J	25mm High pressure screw down stop cock valve and jointing to steel pipe as described	No	1		
K	19 mm Ditto.	No	1		
L	13 mm .	No	1		
	<u>Electric Water Heater and fixing</u>				
M	"Kwikot Prisma or Similar approved " 30 litre, Horizontal type high pressurised Geyser mounted underbasin complete with drip drain to drain outside. (A standard 400kPa pressure control and expansion valve is to be provided if the water mains pressure is above 700kPa)	No	1		
N	15litre underbasin pressure water heater as 'Kwikot Prisma' including connections and set to work	No	1		
	Carried to Collection			K	
	OFFICE PLUMBING INSTALLATION Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

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PLUMBING INSTALLATION

COLLECTION

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PLUMBING INSTALLATION
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
	<u>Distribution Board</u>				
A	<p>6 Way TP + N flush mounted with hinged door cover consisting of the following:</p> <p>1 No. 30A MCB (incomer) 2 No. 60A MCB 1No. - 30A MCB 1No. 20A MCB 1No. 10A MCB 1No. 5kA Surge Arrestor 1No. Earth bars 1No. Inspection box 1No. 2.4m copper earth electrode</p> <p>Notes:-</p> <p>The protection of structure against lightning should comply with BSCP326 1965</p> <p>Joints shall be avoided in the conductors. The necessary tapes shall be overlapped not less than 20 times their thickness and all the edges of the overlap shall be brazed</p> <p>An earth terminator shall be connected to each down conductor and shall be capable of isolation for testing purposes</p> <p><u>LIGHTING POWER INSTALLATIONS</u></p> <p><u>Supply, install and connect all conduit, conduit fittings, cable, wire etc, from the Distribution Boards in concealed conduit installation to the following points including all sockets, isolators, etc, (light switches, fittings and fixtures measured separately</u></p> <p><u>Distribution Board (DELTA / EML)</u></p>	No	1		
B	Light circuits	No	1		
C	Socket outlet circuit	No	1		
D	Hand drier circuits	No	1		
E	Water heater circuit	No	1		
F	Photocell Circuit	No	1		
	Carried to Collection			K	
	OFFICE				
	ELECTRICAL INSTALLATION				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Supply, install and connect the following light switches in concealed conduit installation</u>				
A	10 Amp one gang one way light switch as Legrand 6132 00	No	5		
B	10 Amp two gang two way ditto as Legrand 6132 03	No	3		
C	20 Amp, 1 Gang 1 Way double pole plateswitch for water heater mounted at 1800mm AFFl as Legrand 6132 85	No	1		
	<u>Supply, install and connect the following Power Sockets</u>				
D	2 Gang 13Amp switched socket outlets for general power wall mounted at 315mm AFFL as Legrand 6142 64	No	6		
E	1 Gang 13Amp switched socket outlets for general power wall mounted at 315mm AFFL as Legrand 6142 61	No	3		
	<u>LIGHT FITTINGS</u>				
	<u>Supply, install and connect light fittings including tubes lamps, lamp holders, flexible cable wire Required, in accordance with the manufacturers instructions</u>				
F	Pendant light fitting	No	7		
G	Security light fitting	No	4		
	<u>PHOTOCELLS (Provisional)</u>				
H	Supply, install and connect photocell	No	1		
	<u>HAND DRYER</u>				
J	Hand Drier complete with 1-gang, 2-pole 20A plateswitch as Legrand 6132 78	No	1		
	<u>Testing</u>				
K	Include for all labour, supervision, temporally cables, electric measuring instruments and other equipment for testing the electric installation to the approval of ZESCO and the Architect		Item		
	Carried to Collection			K	
	OFFICE				
	ELECTRICAL INSTALLATION				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
A	<u>Builders Work in Connection with Electrical Installation</u> Include for all the Builders Work required in connecting the new structure with the existing Electrical Installation on site.		Item		
B	<u>Earth Installation</u> Include for earthing the installation as required by ZESCO Ltd., including requisite main earth lead with approved connection to earthing spike or plate and including earth continuity conductor as described and including excavating inspection pit		Item		
				K	
Carried to Collection					
<div>OFFICE ELECTRICAL INSTALLATION Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors</div>					

ELECTRICAL INSTALLATION

COLLECTION

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OFFICE
ELECTRICAL INSTALLATION
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

Item No		Unit	Quantity	Rate	Amount
	<u>FIRE FIGHTING INSTALLATIONS (ALL PROVISIONAL)</u>				
	<u>Fire Alarm Panel</u>				
	<u>Supply and install and set to work the following Fire Alarm Control Panel complete with all cabling all as shown on Drawing No. TEZ/27/PAB/14</u>				
A	Surface mounted 4 Zone addressable fire alarm panel as ZITON ZP3	No	1		
	<u>SMOKE/ HEAT DETECTORS AND ALARMS</u>				
	<u>Supply and install and set to work the following fittings including all cabling and conduiting as shown on Drawing No. TEZ/27/PAB/14</u>				
B	Supply, install and connect smoke detector as ZITON ZP730-2	No	4		
C	Supply, install and connect heat detector as ZITON ZP720-3P	No	1		
D	Supply install and connect electronic sounder with red flashing signal lamp and break glass as ZITON	No	1		
	<u>Fire appliances and fittings to be fixed according to manufacturer's instructions</u>				
E	9Kg Dry Powder Portable extinguisher of approved type complete with wall mounting brackets fixed to wall	No	1		
F	9Kg CO2 Portable extinguisher of approved type complete with wall mounting brackets fixed to wall	No	1		
G	Jason fixed First Aid type hose and reel wall mounted with 30m long hose complete with approved chromium plated 6mm nozzle and clamps and 25mm diameter shut off valve and fixing to wall	No	1		
	<u>Builder's work in connection with fire fighting Installation</u>				
H	Include for all the Builder's work in connection with fire fighting installation		Item		
	Carried to Collection			K	
	OFFICE FIRE FIGHTING INSTALLATIONS Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
A	<u>Testing</u> Include for all labour, supervision, temporally cables testing instruments for testing the fire alarm installation all to the approval of the Engineer		Item		
Carried to Collection				K	
OFFICE FIRE FIGHTING INSTALLATIONS Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors					

FIRE FIGHTING INSTALLATIONS

COLLECTION

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OFFICE
FIRE FIGHTING INSTALLATIONS
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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FLOOR, WALL AND CEILING FINISHINGS

COLLECTION

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OFFICE
FLOOR, WALL AND CEILING FINISHINGS
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
	<u>PAINTING AND DECORATING</u>				
	<u>Sealing coat, three coats acrylic polvin paint to Architect's approved colour as described</u>				
A	To internally plastered walls	m2	120		
B	To reveals width not exceeding 100mm	m	39		
	<u>Sealing coat, three coats acrylic polvin paint Architect's approved colour as described</u>				
C	To externally plastered walls	m2	79		
D	To reveals width not exceeding 100mm	m	39		
	<u>Sealing coat, two coats of white PVA paint to Architect's approved colour as described</u>				
E	To rhino board ceiling	m2	43		
	<u>Prepare touch up Manufacturer's priming coat, and apply one coat primer and three coats universal enamel to Architect's approved colour on metalwork as described to</u>				
F	Pressed steel door frames not exceeding 300mm girth	m	32		
G	Ditto exceeding 300mm girth	m2	4		
	<u>Apply one priming coat and three coats super universal enamel to Architect's approved colour as described</u>				
H	To door leaves	m2	26		
	<u>One wood priming coat and three coats gloss paint, to Architects approved colour, to</u>				
J	Fascia boards.	m2	17		
	Carried Forward to Summary of Section No. 2			K	
	OFFICE PAINTING AND DECORATING Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

SECTION SUMMARY - OFFICE

Bill No		Page No	Amount
1	SUBSTRUCTURE	-2/4-	
2	CONCRETE WORK	-2/5-	
3	BRICKWORK AND BLOCKWORK	-2/6-	
4	ROOFING	-2/7-	
5	CARPENTRY, JOINERY AND IRONMONGERY	-2/10-	
6	METAL WORK	-2/13-	
7	PLUMBING INSTALLATION	-2/18-	
8	ELECTRICAL INSTALLATION	-2/23-	
9	FIRE FIGHTING INSTALLATIONS	-2/26-	
10	FLOOR, WALL AND CEILING FINISHINGS	-2/29-	
11	GLAZING	-2/30-	
12	PAINTING AND DECORATING	-2/31-	
Carried to Form of Tender			K
OFFICE			
Prepared Nkonki & Associates (Z) Ltd.			
Registered Quantity Surveyors			

Item No		Unit	Quantity	Rate	Amount
	<u>Preambles</u>				
	(i) Clearing the site is measured in the external works section of these Bills of Quantities.				
	(ii) The substructure has been measured up to and including the surface slab.				
	(iii) Unless otherwise stated all excavations shall be in "pickable materials" as described.				
	<u>SUBSTRUCTURE - ALL PROVISIONAL</u>				
	<u>Excavations as Described</u>				
A	Excavate oversite average 150 mm deep to remove top soil and wheel spread and level on site where directed.	m2	25		
B	Excavate for foundation trench exceeding 0.25 but not exceeding 1.50 metres and get out	m3	13		
C	Extra over all types of excavations for excavating in hardrock.	m3	1		
D	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	6		
E	Allow for keeping excavations free from general water			Item	
F	Allow for planking and strutting			Item	
	<u>Hardcore or the like</u>				
G	Compact the Sub base Material to 93% Modified AASHO and leave ready to receive hardcore filling	m2	17		
H	Hardcore compacted to 95% Modified A.A.S.H.O.	m3	7		
	<u>Disposal</u>				
J	Load and transport surplus excavated materials to an authorized disposal site.	m3	7		
	<u>Termite Treatment as Described</u>				
K	Ant proofing as described to exposed surfaces of excavations, top of hardcore bed and foundation walls.	m2	70		
	Carried to Collection				
	ABLUTION BLOCK				
	SUBSTRUCTURE				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
A	<u>Polythene membrane under surface slab as described</u> 500 gauge polythene sheeting damp proof course laid on hardcore with 150 mm side and end laps.	m ²	21		
B	<u>Reinforced concrete Class 25 as described, tamped around reinforcement in:-</u> In Foundations	m ³	3.2		
C	In 100 mm Surface bed laid on damp proof membrane (measured separately).	m ²	21		
D	E.O. ditto for thickening of slab average width 200mm x 100 mm thick <u>Plain concrete Class 15</u>	m	8		
E	In 50mm blinding <u>Mesh fabric steel reinforcement to concrete and fixing as described including 250 mm side and end laps and bending cutting and notching</u>	m ²	16		
F	One layer of conforce '86' mesh reinforcement in surface slab. <u>Sawn formwork as described to:-</u>	m ²	21		
G	To edge of surface slab exceeding not exceeding 100mm wide <u>Hollow concrete blockwork in cement mortar 1:3 as described, filled with and including class 15 mass concrete</u>	m	25		
H	200 mm Wall. <u>Brickforce reinforcement as described every course</u>	m ²	21		
J	200 mm Wall. <u>One coat external wood float trowelled plaster finish on the following:</u>	m	105		
K	Block walls, small part on concrete to plinth	m ²	18		
Carried to Collection				K	
ABLUTION BLOCK SUBSTRUCTURE					
Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors					

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SUBSTRUCTURE

COLLECTION

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ABLUTION BLOCK
SUBSTRUCTURE
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
A	In Ring beam, beams and Lintols	m3	1		
B	In situ concrete cill 200 mm wide x max 110 mm deep with slope (20°)on outer half complete with all necessary formwork	m	2		
C	To sides and soffit of lintols and beams	m2	13		
D	Y 12	kg	94		
E	R8	kg	42		
				K	
Carried Forward to Summary of Section No. 3					
ABLUTION BLOCK CONCRETE WORK Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors					

Item No		Unit	Quantity	Rate	Amount
	<u>BRICKWORK AND BLOCKWORK</u>				
	<u>Blockwork in hollow concrete blocks load bearing (crushing strength not less than 3.5N/mm²) in cement mortar (1:4) as described .</u>				
A	200 mm wall	m ²	77		
B	100 mm Ditto.	m ²	19		
C	Rough splay cutting to 200 mm wall.	m	9		
D	Rough raking cutting to 200 mm wall.	m	6		
E	Extra-over hollow blockwork for filling with C15 concrete at eaves	m	15		
	<u>Brickforce reinforcement as described every third course</u>				
F	To 200 mm wall in superstructure walls	m	154		
G	To 100 mm wall in superstructure walls	m	38		
	<u>Three ply bituminous felt damp proof course as described</u>				
H	To 200 mm wall.	m	26		
J	To 100 mm wall.	m	8		
	<u>Air bricks and fixing - All Provisional</u>				
K	200 mm x 200 mm Terra cotta or precast concrete air brick of approved type with copper gauze backing and building into 200 mm wall and render around in cement mortar	No	5		
	Carried Forward to Summary of Section No. 3			K	
	ABLUTION BLOCK				
	BRICKWORK AND BLOCKWORK				
	Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

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Item No		Unit	Quantity	Rate	Amount
<u>CARPENTRY, JOINERY AND IRONMONGERY</u>					
<u>Carpentry</u>					
<u>Sawn soft wood as described shall be pre-treated with two coats of creosote wood preservative and have a minimum bending stress of 8N/mm2 or South African pine grade 8.</u>					
<u>All truss joints to be gang nailed by an approved timber truss fabricator</u>					
A	230mm x 25mm fascia and barge boards	m	23		
B	150mm x 50mm wallplate	m	15		
C	150 mm x 50 mm in trusses	m	44		
D	50mm x 50mm purlins	m	91		
E	50mm x 50mm brandering	m	85		
<u>Joinery</u>					
<u>Rose wood Doors and Door Frames</u>					
<u>Exterior quality solid core flush door with 6mm hardwood lipping all round and covered with plywood suitable for painting</u>					
F	44mm door size 725mm wide x 1960mm high 001D01, 002D01, 003D01, 004D01, 005D01	No	5		
<u>Ironmongery</u>					
<u>Ironmongery to be as per Ironmongery schedule and is to be fitted in strict accordance with the maunfacturers' specifications as described</u>					
G	Lockset as "Dorma" with brushed finish handles	No	5		
H	Rubber door stops	No	5		
				K	
Carried Forward to Summary of Section No. 3					
ABLUTION BLOCK					
CARPENTRY, JOINERY AND IRONMONGERY					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

Item No		Unit	Quantity	Rate	Amount
	<u>METAL WORK</u>				
	<u>Monarch pressed metal door frame or other equal and approved, apply red oxide primed and fixing as described</u>				
A	Frame single rebate size 800 mm wide x 2000 mm high of 1M profile ditto 002D01, 003D01, 004D01, 005D01	No	4		
B	Frame single rebate size 800 mm wide x 2000 mm high of 2M profile ditto 001D01	No	1		
	<u>ALUMINIUM</u>				
	The contractor is to make due allowance in his prices for complying with the following requirements.				
	<u>Preliminary and Shop Drawings:</u>				
	The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.				
	After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.				
	<u>Fixing:</u>				
	The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.				
	<u>Deflection of structure:</u>				
	The contractor is advised to make adequate provision for the design deflection of the structure.				
	<u>Tolerances:</u>				
	Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.				
	Carried to Collection			K	
	ABLUTION BLOCK				
	METAL WORK				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
A	<p><u>Protection:</u></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><u>Cleaning:</u></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p><u>WINDOW FRAMES</u></p> <p><u>Natural Anodised Aluminium Window frames, framing ,cutting, pinning lugs to aluminium frame including glazing with 6.38mm thick solarshield safety glass all ironmongery as specified by the Architect</u></p> <p>Aluminium window frame for opening of 600 mm width x 600 mm height with overall and complete with suitable locking mechanism all as per Architects' details; complete with 6.38 mm laminated shutter proof solarshield glass - 001W01, 002W01, 003W01, 004W01, 005W01</p> <div style="position:absolute; bottom:-70px; right:-90px; font-size: small;">Carried to Collection</div>	No	5	K	
	ABLUTION BLOCK METAL WORK Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

METAL WORK

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ABLUTION BLOCK

METAL WORK

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Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
	<u>Service and overflow pipework in Chlorinated Polyvinyl Chloride Pipework including fixing and jointing as described.</u>				
A	25mm ditto	m	5		
B	19mm diameter pipe	m	5		
C	13mm diameter ditto	m	12		
	<u>Extra over pipework for:-</u>				
D	19mm diameter bend	No	1		
E	19mm x 13mm x 19mm diameter tee	No	4		
F	25mm x 19mm reducing bush	No	1		
G	19mm x 13mm reducing bush	No	4		
	<u>Copper Service Connectors 300 mm long, bent as required including brass unions both ends for and joining to steel pipe and inlet of sanitary fitting</u>				
H	13 mm diameter	No	6		
	<u>Valves and jointing and fixing as described</u>				
J	25mm High pressure screw down stop cock valve and jointing to steel pipe as described	No	1		
K	19 mm Ditto.	No	1		
L	13 mm .	No	6		
	<u>Electric Water Heater and fixing</u>				
M	"Kwikot Prisma or Similar approved " 30 litre, Horizontal type high pressurised Geyser mounted underbasin complete with drip drain to drain outside. (A standard 400kPa pressure control and expansion valve is to be provided if the water mains pressure is above 700kPa)	No	1		
	<u>Sundry Appliances</u>				
N	Liquid Soap dispenser	No	2		
	Carried to Collection			K	
	ABLUTION BLOCK PLUMBING INSTALLATION Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

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PLUMBING INSTALLATION

COLLECTION

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PLUMBING INSTALLATION
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
	<p>ELECTRICAL INSTALLATIONS (ALL PROVISIONAL)</p> <p>All Electrical works to be carried out by an approved ELECTRICAL SUB-CONTRACTOR</p> <p>Generally</p> <p>A Include for giving all necessary notices, allow for attendances on Zambia Electrical Corporation Ltd for inspection and tests as required by them and the Architect, as described</p> <p>B Include for all work to be executed as concealed conduit as described except that conduit fixed to roof purlins will be exposed and is to be neatly and accurately positioned with a neat connections made to the concealed conduit in wall using a junction box with center outlet</p> <p>C Include for the electrical work to be executed by experienced workmen under constant supervision of a qualified tradesman able to speak and write English and competent to correctly interpret relevant drawing and specifications</p> <p>D Include for providing adequate protection of the installation until handed over taking adequate precautions to protect workmen and public from electric shock or burn</p> <p>Notes:-</p> <p>The protection of structure against lightning should comply with BSCP326 1965</p> <p>Joints shall be avoided in the conductors. The necessary tapes shall be overlapped not less than 20 times their thickness and all the edges of the overlap shall be brazed</p> <p>An earth terminator shall be connected to each down conductor and shall be capable of isolation for testing purposes</p> <p>LIGHTING POWER INSTALLATIONS</p>				
	Carried to Collection			K	
	ABLUTION BLOCK ELECTRICAL INSTALLATION Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Supply, install and connect all conduit, conduit fittings, cable, wire etc, from the Distribution Boards in concealed conduit installation to the following points including all sockets, isolators, etc, (light switches, fittings and fixtures measured separately</u>				
A	Light circuits	No	1		
B	Water heater circuits	No	1		
C	Photocell Circuit	No	1		
	<u>Supply, install and connect the following light switches in concealed conduit installation</u>				
D	10 Amp one gang one way light switch as Legrand 6132 00	No	1		
E	10 Amp two gang two way ditto as Legrand 6132 03	No	3		
F	20 Amp, 1 Gang 1 Way double pole plateswitch for water heater mounted at 1800mm AFFl as Legrand 6132 85	No	1		
	<u>LIGHT FITTINGS</u>				
	<u>Supply, install and connect light fittings including tubes lamps, lamp holders, flexible cable wire Required, in accordance with the manufacturers instructions</u>				
G	Pendant light fitting	No	7		
H	Security light fitting	No	2		
	<u>PHOTOCELLS (Provisional)</u>				
J	Supply, install and connect photocell	No	1		
	<u>Testing</u>				
K	Include for all labour, supervision, temporally cables, electric measuring instruments and other equipment for testing the electric installation to the approval of ZESCO and the Architect		Item		
	<u>Builders Work in Connection with Electrical Installation</u>				
L	Include for all the Builders Work required in connecting the new structure with the existing Electrical Installation on site.		Item		
	Carried to Collection			K	
	ABLUTION BLOCK				
	ELECTRICAL INSTALLATION				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
A	<p><u>Earth Installation</u></p> <p>Include for earthing the installation as required by ZESCO Ltd., including requisite main earth lead with approved connection to earthing spike or plate and including earth continuity conductor as described and including excavating inspection pit</p>		Item		
				K	
<p>ABLUTION BLOCK ELECTRICAL INSTALLATION Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors</p>					
<p>Carried to Collection</p>					

ELECTRICAL INSTALLATION

COLLECTION

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ABLUTION BLOCK
ELECTRICAL INSTALLATION
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
	<u>FLOOR, WALL AND CEILING FINISHINGS</u>				
	<u>IN-SITU FINISHINGS</u>				
	<u>One coat smooth steel float finish cement sand (1:4) plaster</u>				
A	12mm to walls internally	m2	99		
B	To reveals not exceeding 100mm wide	m	12		
	<u>One coat wood float finish cement sand (1:4) plaster</u>				
C	19mm to walls externally	m2	67		
D	To reveals not exceeding 100mm wide	m	12		
	<u>Tile, Slab or Block Finishings</u>				
	<u>600 x 600 x 10mm Porcelain non slip floor tiles fixed with approved water proof adhesive and pointing in approved grout including all square cutting waste, edge strips and Aluminium dividing strips</u>				
E	To floor	m2	16		
F	To 100 mm high skirting	m	39		
	<u>200mm x 250mm coloured glazed ceramic wall tiles fixed with approved adhesive and pointing in approved grout including all square cutting and waste</u>				
G	To walls	m2	45		
	<u>Plain Sheet Ceiling Finishings</u>				
	<u>8mm thick particle board ceiling including cornices and cover strips</u>				
H	To ceilings	m2	20		
	<u>Beds and Backings</u>				
	<u>Cement and sand (1:3) as described steel trowelled to a smooth finish</u>				
J	34 mm ditto to receive tiles	m2	16		
	Carried to Collection			K	
	ABLUTION BLOCK				
	FLOOR, WALL AND CEILING FINISHINGS				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
A	<u>One coat (1:4) cement sand plaster</u> 10mm ditto receive wall tiles	m2	45		
Carried to Collection				K	
<div>ABLUTION BLOCK FLOOR, WALL AND CEILING FINISHINGS Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors</div>					

FLOOR, WALL AND CEILING FINISHINGS

COLLECTION

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ABLUTION BLOCK
FLOOR, WALL AND CEILING FINISHINGS
Prepared Nkonki & Associates (Z) Ltd.
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Item No		Unit	Quantity	Rate	Amount
	<u>PAINTING AND DECORATING</u>				
	<u>Sealing coat, three coats gloss paint to Architect's approved colour as described</u>				
A	To internally plastered walls	m2	99		
B	To reveals width not exceeding 100mm	m	12		
	<u>Sealing coat, three coats acrylic polvin paint Architect's approved colour as described</u>				
C	To externally plastered walls	m2	67		
D	To reveals width not exceeding 100mm	m	12		
	<u>Sealing coat, two coats of white PVA paint to Architect's approved colour as described</u>				
E	To particle board ceiling	m2	20		
	<u>Prepare touch up Manufacturer's priming coat, and apply one coat primer and three coats universal enamel to Architect's approved colour on metalwork as described to</u>				
F	Pressed steel door frames not exceeding 300mm girth	m	19		
G	Ditto exceeding 300mm girth	m2	2		
	<u>Apply one priming coat and three coats super universal enamel to Architect's approved colour as described</u>				
H	To door leaves	m2	16		
	<u>One wood priming coat and three coats gloss paint, to Architects approved colour, to</u>				
J	Fascia boards.	m2	11		
	Carried Forward to Summary of Section No. 3			K	
	ABLUTION BLOCK				
	PAINTING AND DECORATING				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

SECTION SUMMARY - ABLUTION BLOCK

Bill No		Page No	Amount
1	SUBSTRUCTURE	-3/4-	
2	CONCRETE WORK	-3/5-	
3	BRICKWORK AND BLOCKWORK	-3/6-	
4	ROOFING	-3/7-	
5	CARPENTRY, JOINERY AND IRONMONGERY	-3/8-	
6	METAL WORK	-3/11-	
7	PLUMBING INSTALLATION	-3/16-	
8	ELECTRICAL INSTALLATION	-3/20-	
9	FLOOR, WALL AND CEILING FINISHINGS	-3/23-	
10	GLAZING	-3/24-	
11	PAINTING AND DECORATING	-3/25-	
Carried to Form of Tender			K
ABLUTION BLOCK			
Prepared Nkonki & Associates (Z) Ltd.			
Registered Quantity Surveyors			

Item No		Unit	Quantity	Rate	Amount
	<u>Preambles</u>				
	(i) Clearing the site is measured in the external works section of these Bills of Quantities.				
	(ii) The substructure has been measured up to and including the surface slab.				
	(iii) Unless otherwise stated all excavations shall be in "pickable materials" as described.				
	<u>SUBSTRUCTURE - ALL PROVISIONAL</u>				
	<u>Excavations as Described</u>				
A	Excavate oversite average 150 mm deep to remove top soil and wheel spread and level on site where directed.	m2	7		
B	Excavate for foundation trench exceeding 0.25 but not exceeding 1.50 metres and get out	m3	4		
C	Extra over all types of excavations for excavating in hardrock.	m3	1		
D	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	2		
E	Allow for keeping excavations free from general water		Item		
F	Allow for planking and strutting		Item		
	<u>Hardcore or the like</u>				
G	Compact the Sub base Material to 93% Modified AASHO and leave ready to receive hardcore filling	m2	3		
H	Hardcore compacted to 95% Modified A.A.S.H.O.	m3	1		
	<u>Disposal</u>				
J	Load and transport surplus excavated materials to an authorized disposal site.	m3	2		
	<u>Termite Treatment as Described</u>				
K	Ant proofing as described to exposed surfaces of excavations, top of hardcore bed and foundation walls.	m2	23		
	Carried to Collection			K	
	GUARD HOUSE				
	SUBSTRUCTURE				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	Polythene membrane under surface slab as described				
A	500 gauge polythene sheeting damp proof course laid on hardcore with 150 mm side and end laps.	m ²	5		
	Reinforced concrete Class 25 as described, tamped around reinforcement in:-				
B	In Foundations	m ³	1		
C	In 100 mm Surface bed laid on damp proof membrane (measured separately).	m ²	5		
D	E.O. ditto for thickening of slab average width 200mm x 100 mm thick	m	1		
	Plain concrete Class 15				
E	In 50mm blinding	m ²	6		
	Mesh fabric steel reinforcement to concrete and fixing as described including 250 mm side and end laps and bending cutting and notching				
F	One layer of conforce '86' mesh reinforcement in surface slab.	m ²	5		
	Sawn formwork as described to:-				
G	To edge of surface slab exceeding not exceeding 100mm wide	m	10		
	Hollow concrete blockwork in cement mortar 1:3 as described, filled with and including class 15 mass concrete				
H	200 mm Wall.	m ²	7		
	Brickforce reinforcement as described every course				
J	200 mm Wall.	m	35		
	One coat external wood float trowelled plaster finish on the following:				
K	Block walls, small part on concrete to plinth	m ²	6		
	Carried to Collection			K	
	GUARD HOUSE SUBSTRUCTURE Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

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SUBSTRUCTURE

COLLECTION

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GUARD HOUSE
SUBSTRUCTURE
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
CARPENTRY, JOINERY AND IRONMONGERY					
<u>Joinery</u>					
<u>Rose wood Doors and Door Frames</u>					
<u>Rosewood lalminated timber flush door</u>					
A	44mm thick door size 725mm wide x 1960mm high 002D01,	No	1		
<u>Ironmongery</u>					
<u>Ironmongery to be as per Ironmongery schedule and is to be fitted in strict accordance with the maunfacturers' specifications as described</u>					
B	Lockset as "Dorma" with brushed finish handles	No	1		
C	Rubber door stops	No	1		
D	150 mm diameter chromium plated towel ring to Architects approval	No	1		
E	Dorma DHC-SS-031B Stainless Steel hat and coat hook with rubber buffer.	No	1		
				K	
Carried Forward to Summary of Section No. 4					
GUARD HOUSE					
CARPENTRY, JOINERY AND IRONMONGERY					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

Item No		Unit	Quantity	Rate	Amount
	<p>METAL WORK</p> <p><u>Monarch pressed metal door frame or other equal and approved, apply red oxide primed and fixing as described</u></p>				
A	<p>Frame single rebated size 800mm wide x 2300mm high of 1M profile 002D01</p> <p>ALUMINIUM</p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p>Preliminary and Shop Drawings:</p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p>Fixing:</p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all neccessary steel brackets, rails, timber grounds and sub-frames, including all neccessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p>Deflection of structure:</p> <p>The contractor is advised to make adquate provision for the design deflection of the structure.</p> <p>Tolerances:</p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architec's details.</p>	No	1		
	GUARD HOUSE METAL WORK			K	
	Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				
	Carried to Collection				

Item No		Unit	Quantity	Rate	Amount
	<p><u>Protection:</u></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><u>Cleaning:</u></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p><u>DOOR FRAMES</u></p> <p><u>Natural Anodised Aluminium door frames, framing ,cutting, pinning lugs to aluminium frame including glazing with 6.38mm thick solarshield safety glass all ironmongery as specified by the Architect</u></p>				
A	900mm wide x 2000mm high door frame with hinged opening as per Architects' details; complete with 6.38 mm laminated shutter proof solarshield glass - 001D01	No	1		
	<p><u>WINDOW FRAMES</u></p> <p><u>Natural Anodised Aluminium Window frames, framing ,cutting, pinning lugs to aluminium frame including glazing with 6.38mm thick solarshield safety glass all ironmongery as specified by the Architect</u></p>				
B	Aluminium window frame for opening of 3230 mm width x 1200 mm height with overall and complete with suitable locking mechanism all as per Architects' details; complete with 6.38 mm laminated shutter proof solarshield glass - 001W01	No	1		
C	Aluminium window frame for opening of 1200 mm width x 600 mm height with overall and complete with suitable locking mechanism all as per Architects' details; complete with 6.38 mm laminated shutter proof solarshield glass - 002W01, 002W02	No	1		
	Carried to Collection			K	
	GUARD HOUSE METAL WORK Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

METAL WORK

COLLECTION

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GUARD HOUSE
METAL WORK
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
	<u>PLUMBING INSTALLATIONS (ALL PROVISIONAL)</u>				
	<u>General</u>				
	All pipework in this section is measured to the external face of the building.				
	<u>Soil & Waste Water Drainage</u>				
	<u>Supply and install the following sanitary installation materials complete with unplasticised PVC (uPVC) pipes and fittings, solvent welded and push fit systems, including cutting and wastage, fixing and connecting in accordance with the manufaturers instructions as Marley (SA Pty) Ltd or equal and approved</u>				
A	110 mm diameter vent pipe fixed to wall with holder butts.	m	2		
B	110mm diameter inspection bend.	No	1		
C	110mm diameter plain bend.	No	1		
D	110mm diameter inspection tee.	No	1		
E	110 mm Diameter x 500mm Long Socket Pan Connector	No	1		
F	110mm diameter sok 'n' vent valve (to top of vent pipe)	No	1		
	<u>UPVC Marley plastic soil pipes and laying as described</u>				
	<u>Pipe Trenches</u>				
G	40mm diallter pipe in wall	m	5		
	<u>Extra over pipework for:-</u>				
H	40mm diameter bend with screw down inspection eye.	No	1		
	Carried to Collection			K	
	GUARD HOUSE PLUMBING INSTALLATION Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Sanitary Fittings and fixing as described</u>				
	Notes:- The rates for sanitary fittings are to include for assembling and fixing in accordance with the manufacturer's instructions and all cutting, pinning or plugging to walls and jointing as described.				
A	<u>Water Closet Suite-</u> White Vitreous China Closed Coupled 90 degrees outlet closed rim washdown pan and matching 7 litre push button top dual flush cistern complete with lid and fitments as TUSKANY by VAAL Potteries or equal and approved; including 13mm angle regulating valve and 13mm flexible connector.	No	1		
B	<u>Wash Hand Basins-</u> Oval underslung vanity basin with integrated overflow from white vitreous china (PRESIDENT by VAAL or equal and approved) Vaal Potteries vitreous china 580 x 410mm (code) "Magnolia" range with single tap hole and pedestal complete with 13mm basin mixer-one hole single lever as 'Cobra Gala' code (GA-650) including matching pop waste and mounting kit, plug, chain and stay . 32 x 32mm Bottle trap; all c.p , with 75mm deep seal, inlet screwed, female,outlet male as Cobra (code 345/40)' , two flexible connectors and a pair of 13mm angle regulating valves.32mm Bottle trap adaptor, Chrome plated as Cobra (code C-345/1) for40mm uPVC pipe.	No	1		
	<u>BRASSWARE</u>				
C	Glazed ceramic toilet roller holder (recessed type) or similar approved by Cobra	No	1		
	<u>Cold and Hot Water Installations</u>				
	<u>Service and overflow pipework in Chlorinated Polyvinyl Chloride Pipework including fixing and jointing as described.</u>				
D	25mm ditto	m	5		
E	19mm diameter pipe	m	5		
F	13mm diameter ditto	m	5		
	Carried to Collection			K	
	GUARD HOUSE PLUMBING INSTALLATION Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Extra over pipework for:-</u>				
A	19mm diameter bend	No	1		
B	19mm x 13mm x 19mm diameter tee	No	1		
C	25mm x 19mm reducing bush	No	1		
D	19mm x 13mm reducing bush	No	1		
	<u>Copper Service Connectors 300 mm long, bent as required including brass unions both ends for and joining to steel pipe and inlet of sanitary fitting</u>				
E	13 mm diameter	No	2		
	<u>Valves and jointing and fixing as described</u>				
F	25mm High pressure screw down stop cock valve and jointing to steel pipe as described	No	1		
G	19 mm Ditto.	No	1		
H	13 mm .	No	2		
	<u>Sundry Appliances</u>				
J	Liquid Soap dispenser	No	1		
	<u>Testing</u>				
K	Include for testing for water tightness.				
			Item		
L	Include for sterilisation of the water supply installation.				
			Item		
	<u>Builders Work in Connection with Plumbing Installations</u>				
M	Include for cutting or forming holes, chases mortices etc., in concrete, brickwork, blockwork etc., for plumbing installations covered in this section and for making good in all trades disturbed.				
			Item		
	Carried to Collection			K	
	GUARD HOUSE				
	PLUMBING INSTALLATION				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

PLUMBING INSTALLATION

COLLECTION

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GUARD HOUSE
PLUMBING INSTALLATION
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No	Unit	Quantity	Rate	Amount
<u>ELECTRICAL INSTALLATIONS (ALL PROVISIONAL)</u>				
<u>All Electrical works to be carried out by an approved ELECTRICAL SUB-CONTRACTOR</u>				
<u>Generally</u>				
A		Item		
Include for giving all necessary notices, allow for attendances on Zambia Electrical Corporation Ltd for inspection and tests as required by them and the Architect, as described				
B		Item		
Include for all work to be executed as concealed conduit as described except that conduit fixed to roof purlins will be exposed and is to be neatly and accurately positioned with a neat connections made to the concealed conduit in wall using a junction box with center outlet				
C		Item		
Include for the electrical work to be executed by experienced workmen under constant supervision of a qualified tradesman able to speak and write English and competent to correctly interpret relevant drawing and specifications				
D		Item		
Include for providing adequate protection of the installation until handed over taking adequate precautions to protect workmen and public from electric shock or burn				
Notes:-				
The protection of structure against lightning should comply with BSCP326 1965				
Joints shall be avoided in the conductors. The necessary tapes shall be overlapped not less than 20 times their thickness and all the edges of the overlap shall be brazed				
An earth terminator shall be connected to each down conductor and shall be capable of isolation for testing purposes				
<u>LIGHTING POWER INSTALLATIONS</u>				
Carried to Collection				K
GUARD HOUSE				
ELECTRICAL INSTALLATION				
Prepared Nkonki & Associates (Z) Ltd.				
Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Supply, install and connect all conduit, conduit fittings, cable, wire etc, from the Distribution Boards in concealed conduit installation to the following points including all sockets, isolators, etc, (light switches, fittings and fixtures measured separately</u>				
A	Light circuits	No	1		
B	Socket outlet circuit	No	1		
C	Photocell Circuit	No	1		
	<u>Supply, install and connect the following light switches in concealed conduit installation</u>				
D	10 Amp one gang one way light switch as Legrand 6132 00	No	1		
E	10 Amp two gang two way ditto as Legrand 6132 03	No	1		
	<u>Supply, install and connect the following Power Sockets</u>				
F	1 Gang 13Amp switched socket outlets for general power wall mounted at 315mm AFFL as Legrand 6142 61	No	1		
	<u>LIGHT FITTINGS</u>				
	<u>Supply, install and connect light fittings including tubes lamps, lamp holders, flexible cable wire Required, in accordance with the manufacturers instructions</u>				
G	Pendant light fitting	No	2		
H	Security light fitting	No	4		
	<u>PHOTOCELLS (Provisional)</u>				
J	Supply, install and connect photocell	No	1		
	<u>Testing</u>				
K	Include for all labour, supervision, temporally cables, electric measuring instruments and other equipment for testing the electric installation to the approval of ZESCO and the Architect		Item		
	Carried to Collection			K	
	GUARD HOUSE				
	ELECTRICAL INSTALLATION				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

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ELECTRICAL INSTALLATION

COLLECTION

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GUARD HOUSE
ELECTRICAL INSTALLATION
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
	<u>FLOOR, WALL AND CEILING FINISHINGS</u>				
	<u>IN-SITU FINISHINGS</u>				
	<u>One coat smooth steel float finish cement sand (1:4) plaster</u>				
A	12mm to walls internally	m2	19		
B	Ditto to soffit of suspended slab	m2	3		
C	To reveals not exceeding 100mm wide	m	12		
	<u>One coat wood float finish cement sand (1:4) plaster</u>				
D	19mm to walls externally	m2	27		
E	To reveals not exceeding 100mm wide	m	12		
	<u>Tile, Slab or Block Finishings</u>				
	<u>600 x 600 x 10mm Porcelain non slip floor tiles fixed with approved water proof adhesive and pointing in approved grout including all square cutting waste, edge strips and Aluminium dividing strips</u>				
F	To floor	m2	3		
G	To 100 mm high skirting	m	10		
	<u>200mm x 250mm coloured glazed ceramic wall tiles fixed with approved adhesive and pointing in approved grout including all square cutting and waste</u>				
H	To splashback	m2	1		
	<u>Beds and Backings</u>				
	<u>Cement and sand (1:3) as described steel trowelled to a smooth finish</u>				
J	34 mm ditto to receive tiles	m2	3		
	<u>One coat (1:4) cement sand plaster</u>				
K	10mm ditto receive wall tiles	m2	1		
	Carried Forward to Summary of Section No. 4			K	
	GUARD HOUSE				
	FLOOR, WALL AND CEILING FINISHINGS				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

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SECTION SUMMARY - GUARD HOUSE

Bill No		Page No	Amount
1	SUBSTRUCTURE	-4/4-	
2	CONCRETE WORK	-4/5-	
3	BRICKWORK AND BLOCKWORK	-4/6-	
4	WATER PROOFING	-4/7-	
5	CARPENTRY, JOINERY AND IRONMONGERY	-4/8-	
6	METAL WORK	-4/11-	
7	PLUMBING INSTALLATION	-4/15-	
8	ELECTRICAL INSTALLATION	-4/19-	
9	FIRE FIGHTING INSTALLATIONS	-4/20-	
10	FLOOR, WALL AND CEILING FINISHINGS	-4/21-	
11	GLAZING	-4/22-	
12	PAINTING AND DECORATING	-4/23-	
Carried to Form of Tender			K
GUARD HOUSE			
Prepared Nkonki & Associates (Z) Ltd.			
Registered Quantity Surveyors			

Item No		Unit	Quantity	Rate	Amount
	<u>Preambles</u>				
	(i) Clearing the site is measured in the external works section of these Bills of Quantities.				
	(ii) The substructure has been measured up to and including the surface slab.				
	(iii) Unless otherwise stated all excavations shall be in "pickable materials" as described.				
	<u>SUBSTRUCTURE - ALL PROVISIONAL</u>				
	<u>Excavations as Described</u>				
A	Excavate oversite average 150 mm deep to remove top soil and wheel spread and level on site where directed.	m2	70		
B	Excavate for foundation trench exceeding 0.25 but not exceeding 1.50 metres and get out	m3	15		
C	Extra over all types of excavations for excavating in hardrock.	m3	1		
D	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	7		
E	Allow for keeping excavations free from general water		Item		
F	Allow for planking and strutting		Item		
	<u>Hardcore or the like</u>				
G	Compact the Sub base Material to 93% Modified AASHO and leave ready to receive hardcore filling	m2	57		
H	Hardcore compacted to 95% Modified A.A.S.H.O.	m3	17		
	<u>Disposal</u>				
J	Load and transport surplus excavated materials to an authorized disposal site.	m3	8		
	<u>Termite Treatment as Described</u>				
K	Ant proofing as described to exposed surfaces of excavations, top of hardcore bed and foundation walls.	m2	126		
	Carried to Collection			K	
	INCINERATOR SHED				
	SUBSTRUCTURE				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	Polythene membrane under surface slab as described				
A	500 gauge polythene sheeting damp proof course laid on hardcore with 150 mm side and end laps.	m2	63		
	Reinforced concrete Class 25 as described, tamped around reinforcement in:-				
B	In Foundations	m3	4		
C	In 100 mm Surface bed laid on damp proof membrane (measured separately).	m2	63		
	Plain concrete Class 15				
D	In 50mm blinding	m2	19		
	Mesh fabric steel reinforcement to concrete and fixing as described including 250 mm side and end laps and bending cutting and notching				
E	One layer of conforce '86' mesh reinforcement in surface slab.	m2	63		
	Sawn formwork as described to:-				
F	To edge of surface slab exceeding not exceeding 100mm wide	m	32		
	Hollow concrete blockwork in cement mortar 1:3 as described, filled with and including class 15 mass concrete				
G	200 mm Wall.	m2	25		
	Brickforce reinforcement as described every course				
H	200 mm Wall.	m	125		
	One coat external wood float trowelled plaster finish on the following:				
J	Block walls, small part on concrete to plinth	m2	26		
	Painting to Plinth Wall				
K	Three Coats Bitumastic paint to plinth exceeding 300 mm high	m2	26		
Carried to Collection				K	
INCINERATOR SHED SUBSTRUCTURE Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors					

SUBSTRUCTURE

COLLECTION

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INCINERATOR SHED
SUBSTRUCTURE
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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[illegible]

Item No		Unit	Quantity	Rate	Amount
	<u>BRICKWORK AND BLOCKWORK</u>				
	<u>Blockwork in hollow concrete blocks load bearing (crushing strength not less than 3.5N/mm²) in cement mortar (1:4) as described .</u>				
A	200 mm wall	m ²	116		
B	Rough splay cutting to 200 mm wall.	m	19		
C	Rough raking cutting to 200 mm wall.	m	13		
D	Extra-over hollow blockwork for filling with C15 concrete at eaves	m	19		
	<u>Brickforce reinforcement as described every third course</u>				
E	To 200 mm wall in superstructure walls	m	232		
	<u>Three ply bituminous felt damp proof course as described</u>				
F	To 200 mm wall.	m	31		
	<u>Air bricks and fixing - All Provisional</u>				
G	200 mm x 200 mm Terra cotta or precast concrete air brick of approved type with copper gauze backing and building into 200 mm wall and render around in cement mortar	No	6		
Carried Forward to Summary of Section No. 5				K	
INCINERATOR SHED BRICKWORK AND BLOCKWORK Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors					

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Item No		Unit	Quantity	Rate	Amount
METAL WORK					
<u>Monarch pressed metal door frame or other equal and approved, apply red oxide primed and fixing as described</u>					
A	Double door frame double rebate size 1600 mm wide x 2000 mm high of 2M profile ditto 001D01	No	1		
<u>Standard ZAM 100 Range composite steel windows with brass fittings shop primed before delivery and assembling and fixing including coupling members, cutting and pinning lugs to walls, bedding and pointing frames in cement mortar (1:3) as and burglar bars made from R16 bars as described</u>					
B	Ditto size 2000 mm wide x 600 mm high ditto 001W01, 001W02, 001W03	No	3		
				K	
Carried Forward to Summary of Section No. 5 INCINERATOR SHED METAL WORK Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors					

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Item No		Unit	Quantity	Rate	Amount
	<u>PAINTING AND DECORATING</u>				
	<u>Sealing coat, three coats gloss paint to Architect's approved colour as described</u>				
A	To internally plastered walls	m2	113		
B	To reveals width not exceeding 100mm	m	22		
	<u>Sealing coat, three coats acrylic polvin paint Architect's approved colour as described</u>				
C	To externally plastered walls	m2	119		
D	To reveals width not exceeding 100mm	m	22		
	<u>Prepare touch up Manufacturer's priming coat, and apply one coat primer and three coats universal enamel to Architect's approved colour on metalwork as described to</u>				
E	Pressed steel door frames exceeding 300mm girth	m2	2		
F	Window frames	m2	7		
	<u>Apply one priming coat and three coats super universal enamel to Architect's approved colour as described</u>				
G	To door leaves	m2	6		
	<u>One wood priming coat and three coats gloss paint, to Architects approved colour, to</u>				
H	Fascia boards.	m2	17		
Carried Forward to Summary of Section No. 5				K	
INCINERATOR SHED					
PAINTING AND DECORATING					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

SECTION SUMMARY - INCINERATOR SHED

Bill No		Page No	Amount
1	SUBSTRUCTURE	-5/3-	
2	CONCRETE WORK	-5/4-	
3	BRICKWORK AND BLOCKWORK	-5/5-	
4	ROOFING	-5/6-	
5	CARPENTRY, JOINERY AND IRONMONGERY	-5/7-	
6	METAL WORK	-5/8-	
7	FLOOR, WALL AND CEILING FINISHINGS	-5/9-	
8	GLAZING	-5/10-	
9	PAINTING AND DECORATING	-5/11-	
Carried to Form of Tender			K
INCINERATOR SHED			
Prepared Nkonki & Associates (Z) Ltd.			
Registered Quantity Surveyors			

Item No		Unit	Quantity	Rate	Amount
	Preambles				
	(i) Clearing the site is measured in the external works section of these Bills of Quantities.				
	(ii) The substructure has been measured up to and including the surface slab.				
	(iii) Unless otherwise stated all excavations shall be in "pickable materials" as described.				
	SUBSTRUCTURE - ALL PROVISIONAL				
	Excavations as Described				
A	Excavate oversite average 150 mm deep to remove top soil and wheel spread and level on site where directed.	m2	28		
B	Excavate for foundation trench exceeding 0.25 but not exceeding 1.50 metres and get out	m3	9		
C	Ditto for column pits	m3	2		
D	Extra over all types of excavations for excavating in hardrock.	m3	1		
E	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	6		
F	Allow for keeping excavations free from general water			Item	
G	Allow for planking and strutting			Item	
	Hardcore or the like				
H	Compact the Sub base Material to 93% Modified AASHO and leave ready to receive hardcore filling	m2	20		
J	Hardcore compacted to 95% Modified A.A.S.H.O.	m3	8		
	Disposal				
K	Load and transport surplus excavated materials to an authorized disposal site.	m3	7		
	Carried to Collection			K	
	WASTE SORTING SHED				
	SUBSTRUCTURE				
	Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Termite Treatment as Described</u>				
A	Ant proofing as described to exposed surfaces of excavations, top of hardcore bed and foundation walls.	m2	62		
	<u>Polythene membrane under surface slab as described</u>				
B	500 gauge polythene sheeting damp proof course laid on hardcore with 150 mm side and end laps.	m2	24		
	<u>Reinforced concrete Class 25 as described, tamped around reinforcement in:-</u>				
C	In Foundations	m3	2.3		
D	In column bases	m3	1		
E	In stub columns	m3	1		
F	In 100 mm Surface bed laid on damp proof membrane (measured separately).	m2	24		
	<u>Plain concrete Class 15</u>				
G	In 50mm blinding	m2	12		
	<u>Mesh fabric steel reinforcement to concrete and fixing as described including 250 mm side and end laps and bending cutting and notching</u>				
H	One layer of conforce '86' mesh reinforcement in surface slab.	m2	24		
	<u>Reinforcing steel cut to lengths, bent, cranked, hooked , fixed and tied as described (Provisional)</u>				
J	Y 20	kg	67		
K	R8	kg	16		
	<u>Sawn formwork as described to:-</u>				
L	To edge of surface slab exceeding not exceeding 100mm wide	m	20		
M	To column starters	m2	9		
	Carried to Collection			K	
	WASTE SORTING SHED SUBSTRUCTURE Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

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SUBSTRUCTURE

COLLECTION

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Carried Forward to Summary of Section No. 6

WASTE SORTING SHED
SUBSTRUCTURE
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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SECTION SUMMARY - WASTE SORTING SHED

Bill No		Page No	Amount
1	SUBSTRUCTURE	-6/4-	
2	ROOFING	-6/5-	
3	CARPENTRY, JOINERY AND IRONMONGERY	-6/6-	
4	STRUCTURAL STEEL WORK	-6/7-	
5	PAINTING AND DECORATING	-6/8-	
6	BRICKWORK AND BLOCKWORK	-6/9-	
7	FLOOR, WALL AND CEILING FINISHINGS	-6/10-	
Carried to Form of Tender			K
WASTE SORTING SHED			
Prepared Nkonki & Associates (Z) Ltd.			
Registered Quantity Surveyors			

Item No		Unit	Quantity	Rate	Amount
	Preambles				
	(i) Clearing the site is measured in the external works section of these Bills of Quantities.				
	(ii) The substructure has been measured up to and including the surface slab.				
	(iii) Unless otherwise stated all excavations shall be in "pickable materials" as described.				
	SUBSTRUCTURE - ALL PROVISIONAL				
	Excavations as Described				
A	Excavate oversite average 150 mm deep to remove top soil and wheel spread and level on site where directed.	m2	42		
B	Excavate for foundation trench exceeding 0.25 but not exceeding 1.50 metres and get out	m3	13		
C	Ditto for column pits	m3	2		
D	Extra over all types of excavations for excavating in hardrock.	m3	1		
E	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	7		
F	Allow for keeping excavations free from general water			Item	
G	Allow for planking and strutting			Item	
	Hardcore or the like				
H	Compact the Sub base Material to 93% Modified AASHO and leave ready to receive hardcore filling	m2	20		
J	Hardcore compacted to 95% Modified A.A.S.H.O.	m3	8		
	Disposal				
K	Load and transport surplus excavated materials to an authorized disposal site.	m3	8		
	Carried to Collection			K	
	OUTSIDE SEATING SHED SUBSTRUCTURE Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Termite Treatment as Described</u>				
A	Ant proofing as described to exposed surfaces of excavations, top of hardcore bed and foundation walls.	m2	90		
	<u>Polythene membrane under surface slab as described</u>				
B	500 gauge polythene sheeting damp proof course laid on hardcore with 150 mm side and end laps.	m2	37		
	<u>Reinforced concrete Class 25 as described, tamped around reinforcement in:-</u>				
C	In Foundations	m3	3.2		
D	In column bases	m3	1		
E	In stub columns	m3	1		
F	In 100 mm Surface bed laid on damp proof membrane (measured separately).	m2	37		
	<u>Plain concrete Class 15</u>				
G	In 50mm blinding	m2	12		
	<u>Mesh fabric steel reinforcement to concrete and fixing as described including 250 mm side and end laps and bending cutting and notching</u>				
H	One layer of conforce '86' mesh reinforcement in surface slab.	m2	37		
	<u>Reinforcing steel cut to lengths, bent, cranked, hooked , fixed and tied as described (Provisional)</u>				
J	Y 20	kg	67		
K	R8	kg	16		
	<u>Sawn formwork as described to:-</u>				
L	To edge of surface slab exceeding not exceeding 100mm wide	m	28		
M	To column starters	m2	9		
	Carried to Collection			K	
	OUTSIDE SEATING SHED SUBSTRUCTURE				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

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SUBSTRUCTURE

COLLECTION

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OUTSIDE SEATING SHED

SUBSTRUCTURE

Prepared Nkonki & Associates (Z) Ltd.

Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
A	<p><u>STRUCTURAL STEEL WORK</u></p> <p><u>GENERALLY</u></p> <p>(i) All steel work to be done in accordance with SABS 1431 Grade 300W</p> <p>(ii) Before shop painting the steel shall be cleaned off all scale rust, welding slag , oil grease or other foreign material.</p> <p><u>Vertical supports</u></p> <p>100mm diameter RHS</p> <p><u>Sundries</u></p> <p>Include for all cleats, plates, bolts and nuts required for fixing of trusses.</p>	m	9		
B			Item		
<p style="text-align: right;">Carried Forward to Summary of Section No. 7</p> <p>OUTSIDE SEATING SHED STRUCTURAL STEEL WORK Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors</p>					K

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SECTION SUMMARY - OUTSIDE SEATING SHED

Bill No		Page No	Amount
1	SUBSTRUCTURE	-7/4-	
2	ROOFING	-7/5-	
3	CARPENTRY, JOINERY AND IRONMONGERY	-7/6-	
4	STRUCTURAL STEEL WORK	-7/7-	
5	PAINTING AND DECORATING	-7/8-	
Carried to Form of Tender			K
OUTSIDE SEATING SHED			
Prepared Nkonki & Associates (Z) Ltd.			
Registered Quantity Surveyors			

Item No		Unit	Quantity	Rate	Amount
	<u>Preambles</u>				
	(i) Clearing the site is measured in the external works section of these Bills of Quantities.				
	(ii) The substructure has been measured up to and including the surface slab.				
	(iii) Unless otherwise stated all excavations shall be in "pickable materials" as described.				
	<u>SUBSTRUCTURE - ALL PROVISIONAL</u>				
	<u>Excavations as Described</u>				
A	Excavate oversite average 150 mm deep to remove top soil and wheel spread and level on site where directed.	m2	151		
B	Excavate for foundation trench exceeding 0.25 but not exceeding 1.50 metres and get out	m3	29		
C	Extra over all types of excavations for excavating in hardrock.	m3	2		
D	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	15		
E	Allow for keeping excavations free from general water		Item		
F	Allow for planking and strutting		Item		
	<u>Hardcore or the like</u>				
G	Compact the Sub base Material to 93% Modified AASHO and leave ready to receive hardcore filling	m2	129		
H	Hardcore compacted to 95% Modified A.A.S.H.O.	m3	52		
	<u>Disposal</u>				
J	Load and transport surplus excavated materials to an authorized disposal site.	m3	14		
	<u>Termite Treatment as Described</u>				
K	Ant proofing as described to exposed surfaces of excavations, top of hardcore bed and foundation walls.	m2	263		
	Carried to Collection			K	
	WAREHOUSE SLAB				
	SUBSTRUCTURE				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	Polythene membrane under surface slab as described				
A	500 gauge polythene sheeting damp proof course laid on hardcore with 150 mm side and end laps.	m ²	140		
	Reinforced concrete Class 25 as described, tamped around reinforcement in:-				
B	In Foundations	m ³	7		
C	In 100 mm Surface bed laid on damp proof membrane (measured separately).	m ²	140		
	Plain concrete Class 15				
D	In 50mm blinding	m ²	37		
	Mesh fabric steel reinforcement to concrete and fixing as described including 250 mm side and end laps and bending cutting and notching				
E	One layer of conforce '86' mesh reinforcement in surface slab.	m ²	140		
	Sawn formwork as described to:-				
F	To edge of surface slab exceeding not exceeding 100mm wide	m	54		
	Hollow concrete blockwork in cement mortar 1:3 as described, filled with and including class 15 mass concrete				
G	200 mm Wall.	m ²	49		
	Brickforce reinforcement as described every course				
H	200 mm Wall.	m	245		
	One coat external wood float trowelled plaster finish on the following:				
J	Block walls, small part on concrete to plinth	m ²	32		
	Painting to Plinth Wall				
K	Three Coats Bitumastic paint to plinth exceeding 300 mm high	m ²	32		
	Carried to Collection			K	
	WAREHOUSE SLAB SUBSTRUCTURE Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

SUBSTRUCTURE

COLLECTION

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-8/2-

Carried to Form of Tender

K

WAREHOUSE SLAB
SUBSTRUCTURE
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

Item No		Unit	Quantity	Rate	Amount
	Preambles				
	(i) Clearing the site is measured in the external works section of these Bills of Quantities.				
	(ii) The substructure has been measured up to and including the surface slab.				
	(iii) Unless otherwise stated all excavations shall be in "pickable materials" as described.				
	SUBSTRUCTURE - ALL PROVISIONAL				
	Excavations as Described				
A	Excavate oversite average 150 mm deep to remove top soil and wheel spread and level on site where directed.	m2	108		
B	Excavate for foundation trench exceeding 0.25 but not exceeding 1.50 metres and get out	m3	46		
C	Ditto for column pits	m3	4		
D	Extra over all types of excavations for excavating in hardrock.	m3	4		
E	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	25		
F	Allow for keeping excavations free from general water			Item	
G	Allow for planking and strutting			Item	
	Hardcore or the like				
H	Compact the Sub base Material to 93% Modified AASHO and leave ready to receive hardcore filling	m2	92		
J	Hardcore compacted to 95% Modified A.A.S.H.O.	m3	37		
	Disposal				
K	Load and transport surplus excavated materials to an authorized disposal site.	m3	25		
	Carried to Collection			K	
	GENERAL WASTE SHED SUBSTRUCTURE Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Termite Treatment as Described</u>				
A	Ant proofing as described to exposed surfaces of excavations, top of hardcore bed and foundation walls.	m ²	330		
	<u>Polythene membrane under surface slab as described</u>				
B	500 gauge polythene sheeting damp proof course laid on hardcore with 150 mm side and end laps.	m ²	100		
	<u>Reinforced concrete Class 25 as described, tamped around reinforcement in:-</u>				
C	In Foundations	m ³	12		
D	In column bases	m ³	1		
E	In stub columns	m ³	2		
F	In 100 mm Surface bed laid on damp proof membrane (measured separately).	m ²	100		
	<u>Plain concrete Class 15</u>				
G	In 50mm blinding	m ²	63		
	<u>Mesh fabric steel reinforcement to concrete and fixing as described including 250 mm side and end laps and bending cutting and notching</u>				
H	One layer of conforce '86' mesh reinforcement in surface slab.	m ²	100		
	<u>Reinforcing steel cut to lengths, bent, cranked, hooked , fixed and tied as described (Provisional)</u>				
J	Y 20	kg	134		
K	R8	kg	32		
	<u>Sawn formwork as described to:-</u>				
L	To edge of surface slab exceeding not exceeding 100mm wide	m	40		
M	To column starters	m ²	17		
	Carried to Collection			K	
	GENERAL WASTE SHED SUBSTRUCTURE Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

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SUBSTRUCTURE

COLLECTION

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Carried Forward to Summary of Section No. 9

GENERAL WASTE SHED
SUBSTRUCTURE
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
CARPENTRY, JOINERY AND IRONMONGERY					
<u>Carpentry</u>					
<u>Sawn soft wood as described shall be pre-treated with two coats of creosote wood preservative and have a minimum bending stress of 8N/mm² or South African pine grade 8.</u>					
<u>All truss joints to be gang nailed by an approved timber truss fabricator</u>					
A	230mm x 25mm fascia and barge boards	m	48		
B	150 mm x 50 mm in rafters	m	144		
C	50mm x 50mm purlins	m	168		
				K	
Carried Forward to Summary of Section No. 9					
GENERAL WASTE SHED					
CARPENTRY, JOINERY AND IRONMONGERY					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

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Item No		Unit	Quantity	Rate	Amount
A	<p>FLOOR, WALL AND CEILING FINISHINGS</p> <p>IN-SITU FINISHINGS</p> <p>One coat wood float finish cement sand (1:4) plaster</p> <p>19mm to walls</p>	m2	72		
Carried Forward to Summary of Section No. 9					K
GENERAL WASTE SHED					
FLOOR, WALL AND CEILING FINISHINGS					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

Item No		Unit	Quantity	Rate	Amount
	<u>PAINTING AND DECORATING</u>				
	<u>Sealing coat, three coats acrylic polvin paint Architect's approved colour as described</u>				
A	To plastered walls <u>Prepare touch up Manufacturer's priming coat, and apply one coat primer and three coats universal enamel to Architect's approved colour on metalwork as described to</u>	m2	7		
B	To 100mm diameter pipes <u>One wood priming coat and three coats gloss paint, to Architects approved colour, to</u>	m	28		
C	Fascia boards.	m2	23		
				K	
Carried Forward to Summary of Section No. 9					
GENERAL WASTE SHED					
PAINTING AND DECORATING					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

SECTION SUMMARY - GENERAL WASTE SHED

Bill No		Page No	Amount
1	SUBSTRUCTURE	-9/4-	
2	BRICKWORK AND BLOCKWORK	-9/5-	
3	ROOFING	-9/6-	
4	CARPENTRY, JOINERY AND IRONMONGERY	-9/7-	
5	STRUCTURAL STEEL WORK	-9/8-	
6	FLOOR, WALL AND CEILING FINISHINGS	-9/9-	
7	PAINTING AND DECORATING	-9/10-	
Carried to Form of Tender			K
GENERAL WASTE SHED			
Prepared Nkonki & Associates (Z) Ltd.			
Registered Quantity Surveyors			

Item No		Unit	Quantity	Rate	Amount
	Preambles				
	(i) Clearing the site is measured in the external works section of these Bills of Quantities.				
	(ii) The substructure has been measured up to and including the surface slab.				
	(iii) Unless otherwise stated all excavations shall be in "pickable materials" as described.				
	SUBSTRUCTURE - ALL PROVISIONAL				
	Excavations as Described				
A	Excavate oversite average 150 mm deep to remove top soil and wheel spread and level on site where directed.	m2	25		
B	Excavate for foundation trench exceeding 0.25 but not exceeding 1.50 metres and get out	m3	9		
C	Ditto for column pits	m3	2		
D	Extra over all types of excavations for excavating in hardrock.	m3	1		
E	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	4		
F	Allow for keeping excavations free from general water			Item	
G	Allow for planking and strutting			Item	
	Hardcore or the like				
H	Compact the Sub base Material to 93% Modified AASHO and leave ready to receive hardcore filling	m2	18		
J	Hardcore compacted to 95% Modified A.A.S.H.O.	m3	7		
	Disposal				
K	Load and transport surplus excavated materials to an authorized disposal site.	m3	7		
	Carried to Collection				
	WASTE PIT				
	SUBSTRUCTURE				
	Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
	<u>Termite Treatment as Described</u>				
A	Ant proofing as described to exposed surfaces of excavations, top of hardcore bed and foundation walls.	m2	55		
	<u>Polythene membrane under surface slab as described</u>				
B	500 gauge polythene sheeting damp proof course laid on hardcore with 150 mm side and end laps.	m2	21		
	<u>Reinforced concrete Class 25 as described, tamped around reinforcement in:-</u>				
C	In Foundations	m3	2.2		
D	In column bases	m3	1		
E	In stub columns	m3	1		
F	In 100 mm Surface bed laid on damp proof membrane (measured separately).	m2	21		
	<u>Plain concrete Class 15</u>				
G	In 50mm blinding	m2	11		
	<u>Mesh fabric steel reinforcement to concrete and fixing as described including 250 mm side and end laps and bending cutting and notching</u>				
H	One layer of conforce '86' mesh reinforcement in surface slab.	m2	21		
	<u>Reinforcing steel cut to lengths, bent, cranked, hooked , fixed and tied as described (Provisional)</u>				
J	Y 20	kg	67		
K	R8	kg	16		
	<u>Sawn formwork as described to:-</u>				
L	To edge of surface slab exceeding not exceeding 100mm wide	m	18		
M	To column starters	m2	9		
	Carried to Collection			K	
	WASTE PIT				
	SUBSTRUCTURE				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

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SUBSTRUCTURE

COLLECTION

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WASTE PIT
SUBSTRUCTURE
Prepared Nkonki & Associates (Z) Ltd.
Registered Quantity Surveyors

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Item No		Unit	Quantity	Rate	Amount
<u>CARPENTRY, JOINERY AND IRONMONGERY</u>					
<u>Carpentry</u>					
<u>Sawn soft wood as described shall be pre-treated with two coats of creosote wood preservative and have a minimum bending stress of 8N/mm² or South African pine grade 8.</u>					
<u>All truss joints to be gang nailed by an approved timber truss fabricator</u>					
A	230mm x 25mm fascia and barge boards	m	21		
B	150 mm x 50 mm in rafters	m	34		
C	50mm x 50mm purlins	m	38		
				K	
Carried Forward to Summary of Section No. 10					
WASTE PIT					
CARPENTRY, JOINERY AND IRONMONGERY					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

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Item No		Unit	Quantity	Rate	Amount
<u>PAINTING AND DECORATING</u>					
<u>Prepare touch up Manufacturer's priming coat, and apply one coat primer and three coats universal enamel to Architect's approved colour on metalwork as described to</u>					
A	To 100mm diameter pipes	m	11		
<u>One wood priming coat and three coats gloss paint, to Architects approved colour, to</u>					
B	Fascia boards.	m2	10		
Carried Forward to Summary of Section No. 10					K
WASTE PIT					
PAINTING AND DECORATING					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

SECTION SUMMARY - WASTE PIT

Bill No		Page No	Amount
1	BRICKWORK AND BLOCKWORK	-10/4-	
2	ROOFING	-10/5-	
3	SUBSTRUCTURE	-10/6-	
4	CARPENTRY, JOINERY AND IRONMONGERY	-10/7-	
5	STRUCTURAL STEEL WORK	-10/8-	
6	PAINTING AND DECORATING	-10/9-	
Carried to Form of Tender			K
WASTE PIT			
Prepared Nkonki & Associates (Z) Ltd.			
Registered Quantity Surveyors			

Item No		Unit	Quantity	Rate	Amount
	<u>SITE WORKS</u>				
	<u>Site Clearance</u>				
A	Clear the site of all trees, grass, bushes and shrubs and dispose as instructed by the Architect	m2	2,500		
	<u>Paving</u>				
B	Excavate to reduce levels 250mm thick and compact base to receive filling	m2	1,424		
C	Ant proofing as described to exposed surfaces of excavations	m2	1,424		
D	150mm thick imported G5 material	m2	1,424		
E	25mm fine sand laid on top of gravel to receive paving bricks	m2	1,424		
F	60mm concrete interlocking paving bricks with minimum crushing strength of 20N/mm2 placed on bed of sand (measured separately)	m2	301		
G	80mm concrete interlocking paving bricks with minimum crushing strength of 30N/mm2 placed on bed of sand (measured separately)	m2	954		
H	600mm x 600mm x 60mm thick concrete paving slabs with minimum crushing strength of 20N/mm2 placed on bed of sand (measured separately)	m2	169		
J	Road markings white lines width 100mm in hot-melt plastic road marking material	m	60		
	<u>Kerbs</u>				
K	Excavate foundation trench for Kerbstone size 550mm wide x 400mm deep including backfilling and carting away extra excavated materials	m	503		
L	Concrete Grade 20 in mass concrete base size 550mm x 150mm	m	503		
M	Bull nosed kerbstone size 125mm x 250mm x 500mm long in concrete Class 25 jointing and pointing in cement mortar (1:3) and haunching one side	m	503		
	<u>Boundary wall</u>				
	Excavate foundation trench for wall fence foundation including backfilling and carting away extra excavated materials	m3	100		
	Carried to Collection			K	
	EXTERNAL WORKS				
	SITE WORKS				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

Item No		Unit	Quantity	Rate	Amount
A	Backfilling in layers not exceeding 100 mm thick around foundations with approved laterite or other approved materials.	m3	51		
B	Load and transport surplus excavated materials to an authorized disposal site.	m3	49		
C	<u>Extra over</u> all types of excavations for excavating in rock	m3	10		
D	Concrete Class 20 in foundation footing	m3	25		
E	200 mm blockwork wall in cement sand mortar (1:4) filled solid with Class 15 concrete	m2	118		
F	200 mm blockwork wall in cement sand mortar (1:4)	m2	529		
G	150 mm wide brickforce in blocks reinforced every third course	m	1,294		
H	Common burnt clay brickwork in 400mm x 400mm piers	m	30		
J	Common burnt clay brickwork in 600mm x 600mm piers	m	2		
K	Face burnt clay brickwork in 400mm x 400mm piers	m	135		
L	Face burnt clay brickwork in 600mm x 600mm piers	m	11		
M	19mm thick rough cast plaster	m2	653		
N	One undercoat and two coats PVA paint as Plascon	m2	653		
P	200mm wide x 100mm Grade 20 concrete coping with surface sloping on both sides	m	176		
Q	500mm x 500mm Grade 20 concrete coping with surfaces sloping to all four sides placed on to piers	No	50		
R	700mm x 700mm Grade 20 concrete coping with surfaces sloping to all four sides placed on to piers	No	3		
S	6000mm wide x 2700mm high automated steel double swing gate to Architects details	No	1		
T	920mm wide x 2700mm high pedestrian gate to Architects details	No	1		
U	One coat primer and two coats gloss paint to palisade and gates	m2	27		
V	Five strand electric fence complete with energiser and alarm system	m	196		
Carried to Collection				K	
EXTERNAL WORKS					
SITE WORKS					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

Item No		Unit	Quantity	Rate	Amount
A	500mm diameter security light sphere	No	14		
Carried to Collection				K	
EXTERNAL WORKS					
SITE WORKS					
Prepared Nkonki & Associates (Z) Ltd.					
Registered Quantity Surveyors					

SITE WORKS

COLLECTION

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EXTERNAL WORKS

SITE WORKS

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K

Item No		Unit	Quantity	Rate	Amount
	<u>SOIL DRAINAGE</u>				
	<u>Pipe Trenches</u>				
A	Excavate trench 400 mm wide, exceeding 600mm deep but not exceeding 900 mm deep for sewer pipe, get out, part backfill, wheel and spread surplus on site as described.	m	87		
	<u>UPVC Marley plastic soil pipes and laying as described</u>				
B	110 mm Diameter pipe laid in trench (measured separately) laid to fall 1:60 complete with river sand bedding all round	m	20		
C	160 mm Diameter pipe laid in trench (measured separately) laid to fall 1:60 complete with river sand bedding all round	m	67		
	<u>UPVC Gulley Trap</u>				
D	100 mm Trapped gulley `P' trap with UPVC grating including surrounding, with concrete 1:2:4 mix `C' not less 150 mm thick carried up to form concrete kerb around three sides of gulley and rendering kerb and dish to inlet with cement mortar (1:3) including excavations and disposal as described and fix to UPVC drain pipes.	No	3		
	<u>Manholes</u>				
E	Include for the construction of manholes as per Engineers Drawing No. DH47/2014/M-05	No	8		
	<u>Septic Tank</u>				
F	Include for the construction of a 1No. septic tank all as per Architects details		Item		
	<u>Soak Away</u>				
G	Include for the construction of a 1No. soak away all as per Architects details		Item		
	<u>Clearing and Testing</u>				
H	Include for clearing out and final testing of the drainage system as described to the satisfaction of the Engineer.		Item		
	Carried to Collection			K	
	EXTERNAL WORKS				
	SOIL DRAINAGE				
	Prepared Nkonki & Associates (Z) Ltd.				
	Registered Quantity Surveyors				

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SOIL DRAINAGE

COLLECTION

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EXTERNAL WORKS

SOIL DRAINAGE

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K

Item No		Unit	Quantity	Rate	Amount
	<u>WATER DRAINAGE (ALL PROVISIONAL)</u>				
	<u>SURFACE WATER DRAINS</u>				
	<u>The following in Dish Drain</u>				
A	Excavating vegetable soil 150mm deep and deposit in spoil heaps	m2	88		
B	Excavate surface not exceeding 300mm deep to reduce levels	m2	88		
C	Extra over ditto for excavations in rock	m3	1		
D	Disposal of surplus excavated materials	m3	25		
E	Levelling and compacting bottoms of excavations	m2	88		
F	50mm thick sand blinding	m2	88		
G	Selected common clay bricks set in cement and sand mortar (1:3) as shown on the drawing with flush pointed joints, the dish drain to be positioned correctly in relation to drip from roof rim and have run-off minimum 1:60 include for backfill of excavated material at surface to match existing terrain levels	m	157		
	<u>The following in Apron</u>				
H	100 mm thick precast concrete apron laid to fall	m2	94		
J	150 mm Bed of hardcore compacted to 95% Modified A.A.S.H.O.	m2	94		
K	50mm thick sand bed	m2	94		
	<u>Testing</u>				
L	Include for testing of the drainage system as described to the satisfaction of the Engineer.		Item		
	Carried Forward to Summary of Section No. 11			K	
	EXTERNAL WORKS				
	WATER DRAINAGE				
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	Registered Quantity Surveyors				

SECTION SUMMARY - EXTERNAL WORKS

Bill No		Page No	Amount
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2	SOIL DRAINAGE	-11/7-	
3	WATER DRAINAGE	-11/8-	
Carried to Form of Tender			K
EXTERNAL WORKS			
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Registered Quantity Surveyors			

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Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL ITEMS	-1/12-	
2	OFFICE	-2/32-	
3	ABLUTION BLOCK	-3/26-	
4	GUARD HOUSE	-4/24-	
5	INCINERATOR SHED	-5/12-	
6	WASTE SORTING SHED	-6/11-	
7	OUTSIDE SEATING SHED	-7/9-	
8	WAREHOUSE SLAB	-8/3-	
9	GENERAL WASTE SHED	-9/11-	
10	WASTE PIT	-10/10-	
11	EXTERNAL WORKS	-11/9-	
	SUB-TOTAL	K	
	Allow 10% for contingencies to be used at the discretion of the Client	K	
12	PRIME COST AND PROVISIONAL SUMS	-12/1-	
	Carried to Form of Tender	K	
	Prepared Nkonki & Associates (Z) Ltd. Registered Quantity Surveyors		