	C2.1 Pricing Instructions
1	The price schedule is provided as a schedule of rates applicable to each site.
2	Rates provided on the price schedule will apply across multiple work packages for the site.
	All quantities provided are strictly provisional and subject to re-measure based on the work packages that are to be executed.
4	All PC cost amounts provided are strictly provisional and reimbursement will be based on net actual cost for the PC cost item.
5	All provisional sums provided are strictly provisional and reimbursement will be based on the net actual cost for the provisional sum item.
6	No commitment is made to expend any or all quantities, PC cost amounts and provisional sum and work done will be strictly determined by each work package specified by the employers agent. The contractor shall have no claim against the employer for any quantities, PC Cost amounts or provisional sums not expended.
7	All quantities, provisional sums and PC Cost amounts shall be expended as directed by the Client and any balance remaining shall be deducted from the contract sum.
8	The Contract Data, specifications, drawings and any other documents relevant to this tender must be read in conjunction with the Pricing Schedule. The Contract Data is according to NEC3 ECC: Option B - Priced contract with Bills of Quantities.
9	This schedule covers the items that will be measurable.
10	The pricing schedule as completed by the Contractor shall cover, "inter alia" all general risks, liabilities, obligations, profit, expenses, costs, bonuses, all allowances such as shift and standby allowances, sick-leave, other leave, brackets, fixings, incidentals, consumables, trainings, medicals etc. that will be required to successfully complete the works as set forth or as implied in the documents on which this Contract is based.
11	The description of each item shall, unless otherwise stated herein, be held to include making, conveying and delivering, unloading, storing, unpacking, hoisting, setting, fitting and fixing in position, cutting and waste, patterns, models and templates, plant, temporary works, return of packaging, establishment charges, profit and all other obligations arising out of the scope of works.
12	The contractor is to take note that payment is made for each item only when it is complete. "Complete" as it is used in this schedule means the complete system or unit as specified in the particular document.
13	Unless a separate rate for the supply and for the installation of any item is specifically called for, the supply and installation costs of any item shall be fully included in the price.
14	No alterations to the original text shall be allowed. If any alterations are made, they will be ignored, and the original wording will apply.
15	It will be assumed that prices tendered are based on incorporating relevant Acts, Ordinances, Regulations, By - Laws, National Standards and International standards as it applies to the scope of works.
16	Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
17	Health and Safety will be audited on a continuous basis. The Contractor shall comply with the Occupational Health and Safety Act, and the relevant Regulations.
18	Permits and Induction shall be paid at cost and shall be paid on proven cost. The Contractor shall provide proof of personnel that attended the Induction and received a permit.
19	Before a Permit is issued, a Security Clearance will be done. No permit will be granted to persons who are not in good standing in respect of this clearance. Bidders to note that permit costs for any changes in the staff / resources after approval of each work package is for the cost of the Contractor.
	BUDGETARY ALLOWANCES
20	There are elements of the Scope of Works for which the Employer is unable to provide, at the time of tender, sufficient information for the Contractor to consider and subsequently provide Prices within the Bill of Quantities. The Employer includes his estimate of the Actual Cost of carrying out such work by providing items comprising "PC Cost Amounts" and "Provisional Sums" as the Prices. The Contractor will maintain records of Actual Cost of the Work done and submit to the Project Manager. The Final Total of Prices will be adjusted accordingly.

21	Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances	
22	Prime cost amounts shall include for supply and delivery to site of all articles concerned and will be reimbursed at net cost plus agreed mark up.	
23	Provisional sums are for material and equipment supplied and installed complete by firms of specialists and will be reimbursed at net cost plus agreed mark up,	
	Materials & Plant	
24	Provision has been made within each bill for the purchase of sundry materials and hire of plant and equipment as may be required. Sundry material and plant & equipment hires shall be authorised by the employer / employers agent in every instance, prior to such purchase or hire. The contractor will be reimbursed at net cost plus agreed mark up.	
	General attendance on subcontractors	
25	The item "attendance" which follows each provisional sum for subcontractors' work, shall be deemed to cover all the contractor's costs incurred in ensuring all contractual obligations for the works are met.	
	Prime Cost (PC) Sums	
00		
26	Prime Cost (PC) Sums means an amount of money provided in the bills of quantities for material and goods to be obtained from a supplier nominated by the Employers Agent and to be fixed by the contractor	
27	The prime cost amount shall be omitted from the contract sum and the amounts actually paid by the contractor in respect of the purchase of the nett quantity of such items including delivery to site shall be added to the contract sum	
28	The contractor has to allow for consumables, labour, profit and waste in his rate over and above the PC amount	
20	The contractor has to allow for consumastics, labour, profit and waste in his rate over and above the FO almount	
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CAPE TOWN INTERNATIONAL AIRPORT - CTIA

			CLUSTER 2 CTIA				
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
	SECTION 1						
	BILL NO.1						
	PRELIMINARIES						
	PREAMBLES FOR TRADES						
	The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the Model Preambles The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles						
	SUPPLEMENTARY PREAMBLES						
	Fixed Charge Items - In general the sum tendered for each fixed charge item will be paid only after the obligations in respect of that item have, in the opinion of the employer/employers agent have been met. Proof of obligations having been met shall be provided to support payment						
	Time Related Items - The amount shall cover all the contractors time related obligations for the entire site irrespective of number of work packages being executed on the site. Payment shall be made for periods of construction works on site. Periods between work packages where there is no construction works will not attract time related charges unless otherwise approved by the employers agent.						
	Value Related Items - The sum tendered for each value related item will only be paid as a proportion of work completed to date on each certificate. The proportion of the amount paid shall be the same as the proportion of work complete to date which is cumulative cost to date divided by the contact sum						
	Provisional amounts included under value related items shall only be utilised on written instruction of the employers agent and will be paid at net cost plus agreed mark up						
	Specialised PPE is defined as PPE other than 'Standard PPE"						
	Standard PPE is defined as: Overalls/Uniforms, Reflector Jackets, Safety Boots, Gloves, Dust Masks, Goggles, Ear Plugs & Hard Hats all of which must be SABS/SANS compliant						
	FIXED CHARGE ITEMS						
CTI 1.1	General Insurance Requirement (Sureties, guarantees, bonds, workman's compensation etc)	Sum	1,00	R	R		
CTI 1.2	Contract works insurance	Sum	1,00	R	R		
CTI 1.3	Public liability insurance	Sum	1,00	R	R		

ITEN	NO N	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CTI	1.4	Other fixed obligations	Sum	1,00	R		R	
		TIME RELATED ITEMS						
		Operation and Maintenance of Facilities on Site, for duration of						
		construction, except where otherwise stated						
СТІ	1.5	Offices (Accommodates up to 5 staff x 1 off)	month	48,00	R		R	
CTI	1.6	Storage sheds (12m x 2.4m x 1 off - Includes Delivery & Removal)	month	48,00	R		R	
СТІ	1.7	Ablution & Latrine facilities (5 x Male & 3 x Urinal & 3 x Female & 1 x Paraplegic & 2 x Standalone Units)	month	48,00	R		R	
CTI	1.8	Electric Power & Lighting	month	48,00	R		R	
СТІ	1.9	Water supplies, electric power and communications	month	48,00	R		R	
		Supervision						
		Supervisor/Foreman						
СТІ	1.10	Site Supervision for the duration of the contract (x 1 Resource)	month	48,00	R		R	
		Safety Management						
СТІ	1.11	Provision of full time Construction Site Safety Officer (x 1 Resource)	month	48,00	R		R	
СТІ	1.12	Compliance with the Occupational Health and Safety Act (OHSA) and Regulations (including the Construction Regulations, 2014)	month	48,00	R		R	
CTI	1.13	Site Security	month	48,00	R		R	
СТІ	1.14	Signage for the site	month	48,00	R		R	
CTI	1.15	Other time related obligations	month	48,00	R		R	
		VALUE RELATED ITEMS						
CTI	1.16	Contractual requirements	Sum	1,00	R		R	
CTI	1.17	Provision for Specialised PPE Requirements	Prov	1,00	R	222 337,48	R	222 337,48
	1.18	Allow for profit & attendance if required	%		R	222 337,48		·
СТІ	1.19	Provision for Location and Protection of Existing Underground Services	Prov	1,00	R	133 402,49	R	133 402,49
CTI	1.20	Allow for profit & attendance if required	%		R	133 402,49	R	
CTI	1.21	Provision for Compliance with Environmental requirements	Prov	1,00	R	133 402,49	R	133 402,49
	1.22	Allow for profit & attendance if required	%		R	133 402,49		·
	1.23	Provision for ACSA Training and Airports Permits (ACSA Issue)	Prov	1,00	R	444 674,97		444 674,97
CTI	1.24	Allow for profit & attendance if required	%		R	444 674,97	R	
		Materials & Plant						
	1.25	Provision for Sundry Materials & Plant	Prov	1,00	R	225 730,12	R	225 730,12
CTI	1.26	Allow for profit & attendance if required	%		R	225 730,12	R	
		Provisional Sum						
CTI	1.27	Sundry preliminary requirements	Prov	1,00	R	225 730,12	R	225 730,12
	1.28	Allow for profit & attendance if required	%		R	225 730,12		

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARRIED TO SITE SUMMARY				R

			CLUSTER 2 CTIA				
TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
Т							
	SECTION 2						
	BILL NO.1						
	LABOUR SCHEDULE						
	GENERAL						
	labour rates will be utilised where 'dayworks' are deemed required as specified by the employers agent.						
	Daywork - The employer's Agent may schedule day works where appropriate for various classes of labour. The unit rates for labour shall cover overhead charges & profit, insurances, wage costs, salary costs, use of equipment & tools and transport & Allowances costs.						
	Operating Times Normal Hours: Regarded as between 06:00am and 18:00pm weekdays						
	After Hours: Regarded as between 06:00pm and 06:00am weekdays						
	After Hours: Regarded as between 06:00am and 23:59pm Saturdays						
	Sundays & Public Holidays: Regarded as Between 0:00am and 23:59pm on Sundays and Public Holidays						
	Additional Supervisor / Foreman (General Building)						
CTI 2.1	Normal Hours	Man Hours	1710,00	R	R		
CTI 2.2	After Hours	Man Hours	440,00	R	R		
CTI 2.3	Sundays & Public Holidays	Man Hours	180,00	R	R		
	Additional Supervisor / Foreman (Civil Works)						
CTI 2.4	Normal Hours	Man Hours	850,00	R	R		
CTI 2.5	After Hours		440,00	R	R		
CTI 2.6	Sundays & Public Holidays		180,00	R	R		
	Handyman						
CTI 2.7	Normal Hours	Man Hours	2250,00	R	R		
CTI 2.8	After Hours		440,00	R	R		
CTI 2.9	Sundays & Public Holidays		180,00	R	R		
	Driek Laver						
CTI 2.10	Brick Layer Normal Hours		890,00	R	R		
CTI 2.11	After Hours		440,00	R	R		
CTI 2.12	Sundays & Public Holidays	Hours Man Hours	180,00	R	R		
	Corportor						
CTI 2.13	Carpenter Normal Hours	Man Hours	1330,00	R	R		
CTI 2.14	After Hours		440,00	R	R		

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI	2.15	Sundays & Public Holidays	Man Hours	180,00	R	R
CTI	2.16	Tiler Normal Hours	Man	890,00	R	R
	2.17	After Hours	Hours Man	440,00	R	R
			Hours			
CTI	2.18	Sundays & Public Holidays	Man Hours	180,00	R	R
		Plasterer				R
CTI	2.19	Normal Hours	Man	890,00	R	R
СТІ	2.20	After Hours	Hours Man	440,00	R	R
CTI	2.21	Sundays & Public Holidays	Hours Man	180,00	R	R
		,	Hours	,		
		Painter				
CTI	2.22	Normal Hours	Man Hours	1780,00	R	R
СТІ	2.23	After Hours	Man Hours	440,00	R	R
CTI	2.24	Sundays & Public Holidays	Man	180,00	R	R
			Hours			
CTI	2.25	Welder Normal Hours	Man	1780,00	R	R
			Hours			
CTI	2.26	After Hours	Man Hours	440,00	R	R
СТІ	2.27	Sundays & Public Holidays		180,00	R	R
			Hours			
CTI	2.28	General Assistant Normal Hours	Man	26680,00	R	R
CTI	2.29	After Hours	Hours Man	440,00	R	R
			Hours			
CTI	2.30	Sundays & Public Holidays	Man Hours	180,00	R	R
		Shutterhand / Formwork Specialist Installer				
CTI	2.31	Normal Hours	Man	890,00	R	R
CTI	2.32	After Hours	Hours Man	440,00	R	R
	2.33	Sundays & Public Holidays	Hours Man	180,00	R	R
	55	Surruays & Lubile Holluays	Hours	100,00	.,	
		Waterproofing Technician / Specialist Installer				
CTI	2.34	Normal Hours	Man Hours	890,00	R	R
СТІ	2.35	After Hours	Man	440,00	R	R
СТІ	2.36	Sundays & Public Holidays	Hours Man Hours	180,00	R	R
			110013			

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI 2.37	Normal Hours	Man Hours	890,00	R	R
CTI 2.38	After Hours	Man	440,00	R	R
CTI 2.39	Sundays & Public Holidays	Hours Man	180,00	R	R
	Sandays & Fablic Holladys	Hours	100,00		
	Flooring Specialist Installer (Vinyl & Epoxy Floors)				
CTI 2.40	Normal Hours		890,00	R	R
CTI 2.41	After Hours	Hours Man	440,00	R	R
CTI 2.42	Sundays & Public Holidays	Hours Man	180,00	R	R
C11 2.42	Sundays & Public Holldays	Hours	180,00	N.	N.
	Flooring Specialist Installer (Carpets)				
CTI 2.43	Normal Hours		890,00	R	R
CTI 2.44	After Hours	Hours Man	440,00	R	R
		Hours			
CTI 2.45	Sundays & Public Holidays	Man Hours	180,00	R	R
CTI 2.46	Flooring Specialist Installer (Timber / Composite Floors) Normal Hours	Man	890,00	R	R
		Hours			
CTI 2.47	After Hours	Man Hours	440,00	R	R
CTI 2.48	Sundays & Public Holidays	Man	180,00	R	R
		Hours			
CT 2.40	Plumber		1700.00		
CTI 2.49	Normal Hours	Man Hours	1780,00	R	R
CTI 2.50	After Hours	Man	440,00	R	R
CTI 2.51	Sundays & Public Holidays	Hours Man	180,00	R	R
		Hours			
	CARRIED TO SITE SUMMARY				R

			CLUSTER 2 CTIA				
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
	SECTION 3						
	BUILDING WORKS						
	BILL NO.1						
	ALTERATIONS						
	PREAMBLES						
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)						
	SUPPLEMENTARY PREAMBLES						
	GENERAL						
	In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc to ensure the stability of all structures during alterations work.						
	Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephones and other services which may be encountered are not interfered with and notice shall be given to the Employer's Representative if any disconnection or alterations become necessary.						
	Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Employer's Representative, be effectively stopped off and any new connections that may be necessary made with the proper tees, junctions pieces, etc. to the satisfaction of the Employer's Representative.						
	The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any service.						
	MATERIALS FROM ALTERATIONS, ETC						
	Old materials to be carted away						
	Old materials from alterations, where described as to be "removed" as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site.						
	Old materials not te be re-used						
	None of old materials are to be used for new work except where specifically described as being "set aside for re-use". The clients agent will indicate materials that are to be 'set asisde for re-use' at the issuing of each work package						

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Handing over materials				
	Handing over materials				
	Where certain materials or articles from alterations are described as to be				
	"handed over" to the Employer's Representative, such material or articles				
	shall be properly stored by the Contractor, until handing over thereof. The				
	Contractor must obtain an official receipt listing the materials or articles				
	and dates of handing over. If the Contarctor fails to submit the receipt				
	when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the client for the full				
	replacement value thereof, which amount will be deducted from monies				
	due to the Contractor. The clients agent will at issuing of each work				
	package indicate materials that are to be handed over				
	EXISTING BUILDINGS				
	The existing buildings will be in use and occupied during the progress of				
	the contract and the contractor will be required to carry out the works in				
	such a manner as will least interfere with the occupants and with the				
	minimum of disturbance.				
	Contractors are also to note that due to the buildings being occupied the				
	repairs and renovations works will be requiered to be executed in a				
	specific order as will be determined by the Employer' Representative.				
	SIZE PERTAINING TO EXISTING WORK				
	SIZE PERTAINING TO EXISTING WORK				
	The Contractor is advised to check all dimensions affecting the existing				
	buildings on the site and he will be held soley responsible for the				
	correctness of sizes of all new work.				
	All sizes given in relation to the existing work are approximate				
	MAKING GOOD DAMAGED WORK				
	The Contractor shall make good in all trades to existing work where				
	damaged or disturbed through the alterations with all necessary new				
	materials to match the existing				
	FORMING NEW OPENINGS OR ALTERING				
	TOWNS NEW OF ENGINEERING				
	Openings in existing walls				
	Descriptions of forming new openings or altering openings in existing				
	walls shall be deemed to include breaking out for and forming new brick,				
	in situ concrete or prestressed concrete lintels including all reinforcement,				
	formwork, turning pieces, etc, building up jamms or portion of openings				
	as described with brickwork properly toothed and bonded to existing,				
	building cavities of hollow walls solid where necessary and making good				
	finishes all around on both sides and into reveals as described.				
	BUILDING UP OPENINGS				
	Descriptions of building up existing openings where given in number shall				
	be deemed to include preparing existing surfaces all around, brickwork				
	properly toothed and bonded to existing, wedging up and making good on				
	both sides as described.				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		PAINTWORK				
		Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere.				
		TEMPORARY BARRIERS, SCREENS, ETC				
		Temporary barriers, screens, etc including removal on completion				
CTI	3.1.1	Temporary hoarding of galvanised diamond mesh covered with shade cloth 2.7m high and removal later	m	220,00	R	R
СТІ	3.1.2	Extra over for galvanised mild steel double gate and frame1 511 x 2032mm high	No	5,00	R	R
СТІ	3.1.3	Drywall barricade not exceding 2.4m high of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum plasterboard and finished with two coats interior quality PVA emulsion paint, including corners, ends, etc	m	330,00	R	R
СТІ	3.1.4	Extra over preceding item for hollow core single door 813 x 2032mm high, including steel frame, two-lever mortice lock, primer and two coats paint	No	5,00	R	R
CTI	3.1.5	Hoarding between concrete floor and ceiling formed of suitable timber framing with 22mm thick shutter board	m2	110,00	R	R
СТІ	3.1.6	Metal sheeting hoarding 2m high fixed to steel posts at equal centres including paint to external face of sheets and posts.	m2	110,00	R	R
СТІ	3.1.7	Temporary 12mm shutter board protection lining to walls, floors and ceilings including removing after completion and making good to walls, floors and ceilings	m2	220,00	R	R
		REMOVAL OF EXISTING WORK				
		Breaking up and removing mass concrete including reinforcing and carting to approved disposal area within the airport.				
CTI	3.1.8	Stairs with landings, waist, treads, risers, ramps, surface beds, strip footing, reinforced concrete etc	m3	220,00	R	R
		Breaking down and removing existing concrete work including all steel reinforcing, steel corners bolts etc and carting to approved disposal area within the airport.				
CTI	3.1.9	Concrete Columns, beams and slabs not exceeding 3m high	m3	70,00	R	R
CTI	3.1.10	Manholes, bases, strip footings etc not exceeding 1.5m deep	m3	70,00	R	R
СТІ	3.1.11	Surface beds not exceeding 100mm thick	m3	70,00	R	R
СТІ	3.1.12	Surface beds exceeding 100mm thick and not exceeding 150mm thick	m3	70,00	R	R
		Breaking down and removing brickwork including all steel door frames, window frames etc and carting to approved disposal area within the airport.				
CTI	3.1.13	Half brick wall	m2	330,00	R	R
CTI	3.1.14	One brick wall	m2	330,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Taking up and removing vinyl floor coverings, tiles, carpets, etc				
CTI	3.1.15	Ceramic / Porcelain / Marble tiles to floor including preparing floor for new floor covering	m2	1110,00	R	R
CTI	3.1.16	Vinyl / plastic / carpet floor covering including preparing floors for new floor coverings	m2	440,00	R	R
		Hacking up and removing off coverings to walls, columns, partitionwalls etc. including preparing surfaces for new finishes				
CTI	3.1.17	Tiles from walls, columns	m2	220,00	R	R
CTI	3.1.18	Wall paper covering from walls, columns etc.	m2	110,00	R	R
		Taking out / off and removing sundry metalwork				
СТІ	3.1.19	Stainless steel / mild steel barrier not exceeding 150mm diameter including vertical supports and making good to concrete to recieve new finish	m	330,00	R	R
		Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)				
CTI	3.1.20	Timber single door and steel frame not exceeding 2,5m ²	No	70,00	R	R
СТІ	3.1.21	Timber double door and steel frame exceeding 2,5m ² and not exceeding 5m ²	No	40,00	R	R
CTI	3.1.22	Timber double door and steel frame exceeding 5m ² and not exceeding 7.5m ²	No	40,00	R	R
CTI	3.1.23	Glazed aluminium/steel/timber window not exceeding 2,5m ²	No	70,00	R	R
CTI	3.1.24	Glazed aluminium/steel/timber window exceeding 2,5m² and not exceeding 5m²	No	40,00	R	R
CTI	3.1.25	Glazed aluminium/steel/timber window exceeding 5m² and not exceeding 7.5m²	No	40,00	R	R
		Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
CTI	3.1.26	Suspended ceilings, including suspension grid, hangers, cornices, etc not exceeding 3.0m high	m2	1110,00	R	R
CTI	3.1.27	Drywall partitions not exceeding 3.0m high, including doors, glazed borrowed lights, etc	m	670,00	R	R
CTI	3.1.28	Toilet partitioning not exceeding 3.0 m high	m2	220,00	R	R
		Taking out and removing sundry joinery work, fittings, etc				
CTI	3.1.29	Skirtings - various widths	m	440,00	R	R
CTI	3.1.30	Timber sills - various widths	m	110,00	R	R
	3.1.31	Timber wall mounted cupboard - Measured by surface area covered on the wall	m2	110,00	R	R
CTI	3.1.32	Timber floor mounted cupboard - Measured by surface area covered on	m2	110,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
СТІ	3.1.33	Timber sink cupboard, including sink and disconnecting & terminating waste pipe - Measured by surface area covered on the floor	m2	70,00	R	R
CTI	3.1.34	Timber/stone counters	m2	110,00	R	R
		Taking out/off and removing sundry metalwork				
СТІ	3.1.35	Steel pipe handrails from walls, including brackets, and making good plaster finish	m	110,00	R	R
		Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc				
CTI	3.1.36	Not exceeding 100mm thick Screed from floors	m2	1110,00	R	R
CTI	3.1.37	Internal plaster from walls and columns not exceeding 3m high	m2	1110,00	R	R
СТІ	3.1.38	Internal plaster from ceilings and beams not exceding 3m high	m2	1110,00	R	R
СТІ	3.1.39	External plaster from walls, columns and beams not exceeding 3m high	m2	1110,00	R	R
		POWER WASH ON EXISTING WALLS				
CTI	3.1.40	Power wash on existing walls (Internal and external walls) as per Employer Agent instruction	m2	1110,00	R	R
		Taking down and removing				
CTI	3.1.41	Mesh fence with steel posts and droppers	m2	2220,00	R	R
CTI	3.1.42	Steel palisade fence with steel posts and droppers	m2	2220,00	R	R
CTI	3.1.43	Concrete palisade fence with concrete posts and droppers	m2	2220,00	R	R
СТІ	3.1.44	Security fence with 45 degree barbed wire overhang with posts and droppers	m2	2220,00	R	R
CTI	3.1.45	Half brick boundary or yard wall	m2	560,00	R	R
CTI	3.1.46	One brick boundary or yard wall	m2	560,00	R	R
СТІ	3.1.47	Clearvu Fence not exceeding 2,0m high with steel posts	m	560,00	R	R
		Lift and removing pre-cast concrete including bedding, etc				
CTI	3.1.48	60mm Interlocking paving	m2	2050,00	R	R
CTI	3.1.49	80mm Interlocking paving	m2	2050,00	R	R
CTI	3.1.50	50mm Cement or brick paving	m2	2050,00	R	R
СТІ	3.1.51	Fig.1 Kerbing	m	330,00	R	R
CTI	3.1.52	Fig.2 Kerbing	m	330,00	R	R
CTI	3.1.53	Fig.3 Kerbing	m	330,00	R	R
СТІ	3.1.54	Fig.4 Kerbing	m	330,00	R	R
	3.1.55	Fig.5 Kerbing	m	330,00	R	R
	3.1.56	Fig. 6 Kerbing	m	330,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI 3.1.57	Fig.6 Kerbing - Mountable	m	330,00	R	R
CTI 3.1.58	Fig.7 Kerbing	m	330,00	R	R
CTI 3.1.59	Fig.8 Kerbing	m	330,00	R	R
CTI 3.1.60	Fig.8b Kerbing - Mountable	m	330,00	R	R
CTI 3.1.61	Fig.8c Kerbing - Mountable	m	330,00	R	R
CTI 3.1.62	Fig.12 Kerbing	m	330,00	R	R
CTI 3.1.63	Fig.14 Kerbing	m	330,00	R	R
CTI 3.1.64	Fig.16 Kerbing	m	330,00	R	R
	PREPARATORY WORK TO EXISTING SURFACES				
CTI 3.1.65	Hacking faces of existing concrete columns, beams, etc to receive plaster	m2	110,00	R	R
CTI 3.1.66	Making good defects in existing screeded floors with "an SABS approved self leveling screed"	m2	110,00	R	R
	MAKING GOOD OF FINISHES ETC				
	Making good face brickwork				
	Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond				
CTI 3.1.67	Ends of half brick walls	m	110,00	R	R
CTI 3.1.68	Ends of one brick walls	m	110,00	R	R
CTI 3.1.69	Faces of walls where half brick cross walls removed	m	70,00	R	R
CTI 3.1.70	Faces of walls where one brick cross walls removed	m	70,00	R	R
	Making good gypsum plasterboard ceilings and timber brandering				
CTI 3.1.71	Ceilings in patches	m2	70,00	R	R
CTI 3.1.72	Ceilings where half brick walls removed	m	70,00	R	R
CTI 3.1.73	Ceilings where one brick walls removed	m	70,00	R	R
	Making good cement screeds				
CTI 3.1.74	Not exceeding 100mm Thick on floors in patches	m2	110,00	R	R
CTI 3.1.75	Floors where half brick walls removed	m	70,00	R	R
CTI 3.1.76	Floors where one brick walls removed	m	70,00	R	R
	Making good internal cement plaster				
CTI 3.1.77	Walls in patches	m2	70,00	R	R
CTI 3.1.78	Concrete ceilings in patches	m2	70,00	R	R
CTI 3.1.79	Walls where half brick walls removed	m	70,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CTI 3.1.80	Walls where one brick walls removed	m	70,00	R		R	
		111	·			IV.	
CTI 3.1.81	Concrete ceilings where half brick walls removed	m	70,00	R		R	
CTI 3.1.82	Concrete ceilings where one brick walls removed	m	70,00	R		R	
	OPENINGS THROUGH EXISTING WALLS ETC						
	Breaking out for and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish and making good.						
CTI 3.1.83	Opening through half brick wall	m2	115,00	R		R	
CTI 3.1.84	Opening through one brick wall	m2	115,00	R		R	
	Materials & Plant						
CTI 3.1.85	Provision for Sundry Materials & Plant	Prov	1,00	R	139 625,00	R	139 625,0
CTI 3.1.86	Allow for profit & attendance if required	%	1,00	R	139 625,00		133 023,00
	Provisional Sum						
CTI 3.1.87	Provision for sundry Alterations Works	Sum	1,00	R	139 625,00	R	139 625,0
CTI 3.1.88	Allow for profit & attendance if required	%		R	139 625,00		
	CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.2				
	EARTHWORKS				
	Before submitting his tender the tenderer shall visit the site and satisfy				
	himself as to the nature and extent of the work to be done.				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Continue and a second and a second as				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
	Filling				
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
	SITE CLEARANCE ETC				
	Site clearance				
CTI 3.2.1	Stripping average 300mm thick layer of top soil and stockpile on site	m2	1780,00	R	R
	EXCAVATION, RISK OF COLLAPSE, FILLING, ETC				
	Excavation in earth not exceeding 2m deep including carting to a stockpile				
CTI 3.2.2	To trenches	m3	440,00	R	R
CTI 3.2.3	To holes	m3	40,00	R	R
	To floies	1113	40,00	N.	N
CTI 3.2.4	Reduced levels under floors	m3	80,00	R	R
	Excavation in earth exceeding 2m deep but ne. 4m including carting to a stockpile				
CTI 3.2.5	To trenches	m3	220,00	R	R
CTI 3.2.6	To holes	m3	40,00	R	R
CTI 3.2.7	Reduced levels under floors	m3	60,00	R	R
	EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER				
	Extra over trench and hole excavations in earth for excavation in				
CTI 3.2.8	EO: Soft rock	m3	40,00	R	R

ITEM	I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI 3	3.2.9	EO: Hard rock	m3	40,00	R	R
		Extra over all excavations for carting away				
CTI 3	3.2.10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	440,00	R	R
		Risk of collapse to sides of excavation n.e 2m deep				
CTI 3	3.2.11	To trenches	m2	400,00	R	R
CTI 3	3.2.12	To holes	m2	100,00	R	R
		Risk of collapse to sides of excavation exceeding 2m but n.e 3.5m deep				
CTI 3	3.2.13	To trenches	m2	400,00	R	R
CTI 3	3.2.14	To holes	m2	130,00	R	R
		Keeping excavations free of water				
CTI 3	3.2.15	Keeping excavations free of water	Item	1,00	R	R
		FILLING ETC				
		Earth filling obtained from excavations and/or prescribed stock on site compacted to 93 % Mod AASHTO density piles				
CTI 3	3.2.16	Under foundations, floors, steps, pavings, etc	m3	200,00	R	R
		Earth filling supplied (G5) by contractor compacted to 93% Mod AASHTO density				
CTI 3	3.2.17	Under floors, steps, paving, foundations, manholes etc	m3	339,00	R	R
		Compaction of surfaces				
CTI 3	3.2.18	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	890,00	R	R
		Prescribed density tests on filling				
CTI 3	3.2.19	"Modified AASHTO Density" test	No	1,00	R	R
CTI 3	3.2.20	"Field Density" test, including "Optimum Moisture Content" (four readings per test)	No	1,00	R	R
		SOIL POISONING				
		Soil insecticide				
CTI 3	3.2.21	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	440,00	R	R
CTI 3	3.2.22	To bottoms and sides of trenches etc	m2	440,00	R	R
		Materials & Plant				
	3.2.23	Provision for Sundry Materials & Plant	Prov	1,00	R 27 925,00	
CTI 3	3.2.24	Allow for profit & attendance if required	%		R 27 925,00	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE	AMOUNT
		Provisional Sum					
CTI	3.2.25 3.2.26	Sundry Earthworks Allow for profit & attendance if required	Sum	1,00	R	27 925,00 27 925,00	R 27 925,
CTI	3.2.26	Allow for profit & attendance if required	%		R	27 925,00	R
		CARRIED TO SECTION SUMMARY					R

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Quantity Surveyors (2008 edition) SUPPLEMENTARY PREAMBLES Cost of tests The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the employers agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. PRICES FOR CONCRETE ARE TO INCLUDE FOR ALL TESTS AND CERTIFICATES Formwork Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before reuse The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork to sides of bases, pile caps, ground beams, etc will only be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" in order to accommodate the custom in some regions to give formwork to sides of beams, isolate beams, etc separately from formwork to the soffits thereof, the items in respect of formwork to beams, isolated beams, etc are given under the headings of "Formwork to bea						
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thereof, the items in respect of formwork to beams, isolated beams, etc are given under the headings of "formwork to sides", "formwork to soffits" UNREINFORCED CONCRETE 15 Mpa / 20mm mass concrete CTI 3.3.1 To strip footings, surface beds, blinding, paving, platforms, steps, bases, m3 80,00 R R						
soffits" and "formwork to sides and soffits" UNREINFORCED CONCRETE 15 Mpa / 20mm mass concrete CTI 3.3.1 To strip footings, surface beds, blinding, paving, platforms, steps, bases, m3 80,00 R R		thereof, the items in respect of formwork to beams, isolated beams, etc				
UNREINFORCED CONCRETE 15 Mpa / 20mm mass concrete CTI 3.3.1 To strip footings, surface beds, blinding, paving, platforms, steps, bases, m3 80,00 R R						
15 Mpa / 20mm mass concrete CTI 3.3.1 To strip footings, surface beds, blinding, paving, platforms, steps, bases, m3 80,00 R R		soffits" and "formwork to sides and soffits"				
15 Mpa / 20mm mass concrete 15 Mpa / 20mm mass concrete CTI 3.3.1 To strip footings, surface beds, blinding, paving, platforms, steps, bases, m3 80,00 R R		-				
CTI 3.3.1 To strip footings, surface beds, blinding, paving, platforms, steps, bases, m3 80,00 R R		UNREINFORCED CONCRETE				
		15 Mpa / 20mm mass concrete				
	CTI 3.3.1	To strip footings, surface beds, blinding, paving, platforms, steps, bases	m3	80.00	R	R
kerbing etc						

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		20 Mpa/20mm vibrated reinforced concrete				
СТІ	3.3.2	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	80,00	R	R
CTI	3.3.3	To columns	m3	40,00	R	R
CTI	3.3.4	To slabs	m3	40,00	R	R
CTI	3.3.5	To beams	m3	40,00	R	R
CTI	3.3.6	Walls	m3	40,00	R	R
		25 Mpa/20mm vibrated reinforced concrete				
СТІ	3.3.7	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	80,00	R	R
CTI	3.3.8	To columns	m3	40,00	R	R
CTI	3.3.9	To slabs	m3	40,00	R	R
CTI	3.3.10	To beams	m3	40,00	R	R
CTI	3.3.11	Walls	m3	40,00	R	R
		30MPa/20mm vibrated reinforced concrete				
СТІ	3.3.12	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	80,00	R	R
CTI	3.3.13	To columns	m3	40,00	R	R
CTI	3.3.14	To slabs	m3	40,00	R	R
CTI	3.3.15	To beams	m3	40,00	R	R
CTI	3.3.16	Walls	m3	40,00	R	R
		35 Mpa/20mm vibrated reinforced concrete				
СТІ	3.3.17	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	20,00	R	R
CTI	3.3.18	To columns	m3	10,00	R	R
CTI	3.3.19	To slabs	m3	10,00	R	R
CTI	3.3.20	To beams	m3	10,00	R	R
CTI	3.3.21	Walls	m3	10,00	R	R
		40 Mpa/20mm vibrated reinforced concrete				
CTI	3.3.22	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	10,00	R	R
СТІ	3.3.23	To columns	m3	4,00	R	R
CTI	3.3.24	To slabs	m3	4,00	R	R
CTI	3.3.25	To beams	m3	4,00	R	R
CTI	3.3.26	Walls	m3	4,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	TEST CUBES				
CTI 3.3.2	Making and testing 150 x 150 x 150mm concrete strength test cube, testing and providing test results	No	30,00	R	R
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float				
CTI 3.3.2	Surface beds, slabs,beams, walls, paving etc	m2	440,00	R	R
			·		
	Finishing top surfaces of concrete smooth with a steel trowel				
CTI 3.3.2	Surface beds, slabs,beams, walls, paving etc	m2	440,00	R	R
	Finishing top surfaces of concrete smooth with a power float				
CTI 3.3.3	Surface beds, slabs,beams, walls, paving etc	m2	440,00	R	R
	Scabble existing concrete surfaces, wire brush corroded rebar and apply "Prostruct 616" or similar approved wet to dry concrete adhesive				
CTI 3.3.3	Side of existing concrete	m2	220,00	R	R
	Finishing top surfaces of concrete with and including a nonslip brushed concrete finish including wave-like lines parallel				
CTI 3.3.3	To falls	m2	220,00	R	R
	35MPa non-shrink grout				
CTI 3.3.3	Bedding approximately 30mm thick under 300 x 300mm base plate, including chamfered edges all round	m3	4,00	R	R
	Core through 250mm thick Reinforced concrete walls, slab, etc. with a diamond saw or other mechanical means to form including grouting with "Epidermix 395" liquid grouting compound				
CTI 3.3.3	40mm Diameter opening	No	10,00	R	R
CTI 3.3.3	50mm Diameter opening	No	10,00	R	R
CTI 3.3.3	110mm Diameter opening	No	10,00	R	R
CTI 3.3.3	200mm Diameter opening	No	10,00	R	R
CTI 3.3.3		No	10,00	R	R
CTI 3.3.3			4,00	R	R
		No			
CTI 3.3.4		No	4,00	R	R
	Rough formwork to sides				
CTI 3.3.4	Edges , risers, ends and reveals not exceeding 300 mm high	m	440,00	R	R
CTI 3.3.4	To ground beams	m2	220,00	R	R
	Smooth formwork to sides including supports etc.				
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ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI	3.3.44	To columns	m2	180,00	R	R
				•		
СТІ	3.3.45	To pits	m2	180,00	R	R
CTI	3.3.46	To ramps	m2	180,00	R	R
CTI	3.3.47	To walls	m2	180,00	R	R
		Smooth formwork to soffits				
CTI	3.3.48	Beams propped up exceeding 3,5m and not exceeding 5m high	m2	220,00	R	R
CTI	3.3.49	Slab propped up exceeding 3,5m and not exceeding 5m high	m2	470,00	R	R
		Formwork to sloping top surfaces (pitch exceeding 35 degrees)				
CTI	3.3.50	Concrete humps/bunding, etc not exceeding 300mm wide	m	90,00	R	R
		ISOLATION JOINTS ETC				
		Joint sealants				
		Expansion joints with softboard between vertical concrete surfaces				
CTI	3.3.51	Silicone sealing compound in 10 - 50 mm wide joints between units including backing strips, bond breaker, primer etc	m	130,00	R	R
CTI	3.3.52	Polysulphide sealing compound in 10 - 50 mm wide joints between units including backing strips, bond breaker, primer etc	m	130,00	R	R
		Saw cut joints				
СТІ	3.3.53	50 x 3mm Saw cut joints in top of concrete reamed out to 8mm including 10mm diameter backing cord and 8mm wide x 13mm deep "Dow Corning 813C" silicone sealant or equal approved	m	130,00	R	R
		REINFORCEMENT (PROVISIONAL)				
		Mild tensile steel reinforcement to structural concrete work				
СТІ	3.3.54	25mm Diameter bars	ton	1,00	R	R
CTI	3.3.55	20mm Diameter bars	ton	4,00	R	R
CTI	3.3.56	16mm Diameter bars	ton	4,00	R	R
CTI	3.3.57	12mm Diameter bars	ton	4,00	R	R
СТІ	3.3.58	10mm Diameter bars	ton	5,00	R	R
CTI	3.3.59	8mm Diameter bars	ton	5,00	R	R
		High tensile steel reinforcement to structural concrete work				
CTI	3.3.60	25mm Diameter bars	ton	1,00	R	R
	3.3.61	20mm Diameter bars		2,00	R	R
			ton	•		
СТІ	3.3.62	16mm Diameter bars	ton	2,00	R	R
CTI	3.3.63	12mm Diameter bars	ton	2,00	R	R
			ton	2,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CTI	3.3.65	8mm Diameter bars	ton	2,00	R		R	
		Fabric reinforcement						
СТІ	3.3.66	Type 100 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	120,00	R		R	
СТІ	3.3.67	Type 193 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	280,00	R		R	
СТІ	3.3.68	Type 245fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	120,00	R		R	
СТІ	3.3.69	Type 311 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	120,00	R		R	
СТІ	3.3.70	Type 395 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	120,00	R		R	
		Materials & Plant						
CTI	3.3.71	Description for Conduct Materials 9 Disease	Descri	1.00	_	111 700 00	D.	111 700 00
	3.3.71	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	111 700,00 111 700,00		111 700,00
		Provisional Sum				•		
	3.3.73 3.3.74	Sundry Concrete Formwork & Reinforcement Works Allow for profit & attendance if required	Sum %	1,00	R R	111 700,00 111 700,00		111 700,00

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	DILL NO 4				
	BILL NO.4				
	MASONRY				
	PREAMBLES				
	FREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	CURRUSANTA DV PREABADLES				
	SUPPLEMENTARY PREAMBLES				
	BRICKWORK				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Hollow walls				
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	BRICKWORK				
	Brickwork of NFX clay bricks (14 MPa nominal compressive strength) in class II mortar in stretcher bond				
CTI 3.4.1	Piers	m3	10,00	R	R
CT1 2.4.2	Halffe est and		440.00		
CTI 3.4.2	Half brick walls	m2	440,00	R	R
CTI 3.4.3	One brick walls	m2	670,00	R	R
CTI 3.4.4	Cavity walls - Made up of Two half brick skins	m2	220,00	R	R
CTI 3.4.5	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	220,00	R	R
CTI 3.4.6	280mm Hollow walls of two half brick skins circular on plan with cavities filled in with and including 25MPa/20mm concrete (elsewhere)	m2	180,00	R	R
CTI 3.4.7	Cutting toothings and bonding new brickwork to existing	m	90,00	R	R
511 5,	CALCULAR COOKINGS AND SOLICING HICK SHICKWOLK TO CAISTING	- '''	50,00		
	Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI 3.4.8	Piers	m3	10,00	R	R
CTI 3.4.9	Half brick walls	m2	1110,00	R	R
CTI 3.4.10	One brick walls	m2	1330,00	R	R
CTI 3.4.11	Cavity walls - Made up of two half brick skins	m2	620,00	R	R
CTI 3.4.12	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	620,00	R	R
CTI 3.4.13	280mm Hollow walls of two half brick skins circular on plan with cavities filled in with and including 25MPa/20mm concrete	m2	420,00	R	R
CTI 3.4.14	Cutting toothings and bonding new brickwork to existing	m	440,00	R	R
	FACE BRICKWORK				
	Provide the prime cost of R 9 600.00 per thousand face bricks delivered to site pointed with flush horizontal and vertical joints				
CTI 3.4.15	Extra over brickwork for face brickwork in foundation walls, ramp, etc	m2	180,00	R	R
CTI 3.4.16	Extra over brickwork for face brickwork	m2	310,00	R	R
CTI 3.4.17	Half brick face brick walls in class II mortar pointed on both sides	m2	270,00	R	R
CTI 3.4.18	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	40,00	R	R
CTI 3.4.19	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm external diameter	No	40,00	R	R
	Steel bar reinforcement				
CTI 3.4.20	8mm Diameter mild steel bars built in horizontally	ton	1,00	R	R
	Prestressed precast lintels				
CTI 3.4.21	110 x 75mm Lintels in lengths not exceeding 3m	m	220,00	R	R
			·		
CTI 3.4.22	110 x 75mm Lintels exceeding 3,0m but not exceeding 4,5m	m	130,00	R	R
	Fabric Reinforcement				
CTI 3.4.23	75mm Galvanised brickforce suitable for half brick walls	m	1330,00	R	R
CTI 3.4.24	150mm Galvanised brickforce suitable for one brick walls	m	1330,00	R	R
	Galvanised hoop iron cramps, ties, etc				
CTI 3.4.25	30 x 1,6mm Roof tie 1500mm long with one end fixed to timber and other end built into brickwork	No	90,00	R	R
	Bagging of 1:3 cement and sand mixture				
CTI 3.4.26	On brick walls	m2	270,00	R	R

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Materials & Plant				
CTI 2 4 27		D	1.00	D 444 700 00	D 444 700 00
CTI 3.4.27 CTI 3.4.28	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 111 700,00	R 111 700,00
	Provisional Sum				
CTI 3.4.29 CTI 3.4.30	Sundry Masonry Works Allow for profit & attendance if required	Sum %	1,00	R 111 700,00	R 111 700,00
C11 5. 1.50	Throw for profit & attendance in required	70		111700,00	
	CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.5				
	DILL NO.3				
	WATERPROOFING				
	PREAMBLES				
	PREAIVIBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Waterproofing				
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course				
CTI 3.5.1	In walls	m2	440,00	R	R
	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
CTI 3.5.2	Under surface beds, etc	m2	1330,00	R	R
	Three coats paint sealer "plascon wallseal" or equal approved without membrane				
CTI 3.5.3	On parapet walls	m2	440,00	R	R
	Two coats "Brixeal" or equal approved bitumen emulsion waterproof coating				
CTI 2.5.4	On walls	2	440.00	D	n
CTI 3.5.4	On walls	m2	440,00	R	R
	JOINT SEALANTS ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
CTI 3.5.5	In joints between window or door frames and concrete or brickwork	m	90,00	R	R
	WATERPROOFING TO ROOFS ETC				
	TORCH-ON WATERPROOFING				
	4mm Thick "Derbigum SP4" or similar approved waterproofing membrane including laps, turn-ups, turndowns, etc and preparing and priming concrete or screeded surfaces laid in accordance with the manufacturers instruction				
CTI 3.5.6	On flat roofs / floors.	m2	890,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI 3.5.7	On turn-ups and turn-downs exceeding 300mm girth	m2	40,00	R	R
CTI 3.5.8	On sloping roofs	m2	890,00	R	R
CTI 3.5.9	On tops and sides of inverted beams	m2	180,00	R	R
CTI 3.5.10	On bottoms and sides of floor ducts, channels, etc	m2	180,00	R	R
CTI 3.5.11	On bottoms and sides of box gutters	m2	180,00	R	R
CTI 3.5.12	On bottoms and sides of plant boxes	m2	90,00	R	R
CTI 3.5.13	Sealing edges to brickwork or concrete	m	90,00	R	R
CTI 3.5.14	Sealing edges to brickwork or concrete including trowelled mastic bead	m	90,00	R	R
CTI 3.5.15	Additional membrane 300mm girth at internal and external angles	m	90,00	R	R
CTI 3.5.16	Dressing and sealing around pipe not exceeding 200mm external diameter, including additional membrane, gussets, collars, etc	No	40,00	R	R
CTI 3.5.17	On internal surfaces of 300 x 300 x 300mm deep sump, catchpit, etc	No	20,00	R	R
CTI 3.5.18	On concrete flat roofs including all turn-ups and turndowns and sealing edges where required.	m2	440,00	R	R
	PROTECTIVE STONE DRESSING				
	19mm Crushed stone dressing evenly spread with larger stones around outlets				
CTI 3.5.19	25mm Thick on waterproofing to flat roofs	m2	440,00	R	R
	PROTECTIVE ROOFING PAINT				
	Two coats "Silvakote" or similar approved bituminous aluminium paint				
CTI 3.5.20	On waterproofing to roofs	m2	440,00	R	R
CTI 3.5.21	On inside of existing box gutters	m2	440,00	R	R
	PROTECTIVE ROOFING SHEETING				
	Type 40 bituminous fibreglass felt laid loose				
CTI 3.5.22	On waterproofing to roofs	m2	130,00	R	R
	WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
CTI 3.5.23	6 x 10mm In saw cut joints in floors	m	90,00	R	R
CTI 3.5.24	6 x 10mm In expansion joints in tiled walls etc	m	90,00	R	R
	10 x 15mm In expansion joints in tiled floors etc	m	90,00	R	R
CTI 3.5.25					

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CTI 3.5.27	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	90,00	R		R	
	Mastic sealing compound including backing cord, bond breaker, primer, etc						
CTI 3.5.28	6 x 10mm In saw cut joints in floors	m	90,00	R		R	
CTI 3.5.29	6 x 10mm In expansion joints in tiled walls etc	m	90,00	R		R	
CTI 3.5.30	10 x 15mm In expansion joints in tiled floors etc	m	90,00	R		R	
CTI 3.5.31	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	90,00	R		R	
CTI 3.5.32	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	90,00	R		R	
	Materials & Plant						
CTI 3.5.33	Provision for Sundry Materials & Plant	Prov	1,00	R	55 850,00	R	55 850,00
CTI 3.5.34	Allow for profit & attendance if required	%		R	55 850,00	R	
	Provisional Sum						
CTI 3.5.35	Sundry Waterproofing Works	Sum	1,00	R	55 850,00		55 850,00
CTI 3.5.36	Allow for profit & attendance if required	%		R	55 850,00	R	
						R	

ITEM I	NO DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.6	+			
	CARPENTRY & JOINERY				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Description				
	The term "planted on" shall mean the countersunk screwing of one timber member to another with the heads of screws sunk and pelleted.	r			
	The term "plugged" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted				
	Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing				
	Descriptions of floors, ceilings, joinery, etc shall be deemed to include for all square cutting				
	Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.				
	Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc				
	DOORS, ETC				
	Semi-solid flush panel doors with commercial veneer both sides suitable for painting and hung to steel, aluminium, timber frames				
CTI 3.0	6.1 Provide the prime cost of R 2000.00 per door leaf & hinges for single doo openings	r No	100,00	R	R
CTI 3.0	6.2 Provide the prime cost of R 3 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	100,00	R	R
	40mm Thick semi-solid flush panel doors with sapele hardwood veneer both sides suitable for varnish				
CTI 3.0	Provide the prime cost of R 2000.00 per door leaf & hinges for single doo openings	r No	100,00	R	R
CTI 3.0	Provide the prime cost of R 3 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	100,00	R	R
	44mm Thick solid door suitable for varnish or painting and hung to steel, aluminium or timber frames				
CTI 3.0	6.5 Provide the prime cost of R 3000.00 per door leaf & hinges for single doo openings	r No	120,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
СТІ	3.6.6	Provide the prime cost of R 6 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	120,00	R	R
		"Bitcon Industries" or similar approved Class A 1 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames				
CTI	3.6.7	Provide the prime cost of R 5000.00 for Class A fire door for single door opening including single rebated pressed steel frame for 115mm brick wall, hinges and preparing frame for door closer and lock	No	40,00	R	R
СТІ	3.6.8	Provide the prime cost of R 8 500.00 for Class A fire double door for double door opening including double rebated pressed steel frame for 230mm brick wall, hinges and preparing frame for door closer and lock	No	40,00	R	R
		"Bitcon Industries" or similar approved Class B 2 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames				
СТІ	3.6.9	Provide the prime cost of R 6 500.00 for Class B fire door for single door opening including single rebated pressed steel frame for 115mm brick wall, hinges and preparing frame for door closer and lock	No	47,00	R	R
СТІ	3.6.10	Provide the prime cost of R 12 500.00 for Class B fire double door for double door opening including double rebated pressed steel frame for 230mm brick wall, hinges and preparing frame for door closer and lock	No	40,00	R	R
		Materials & Plant				
CTI	3.6.11	Provision for Sundry Materials & Plant	Prov	1,00	R 111 700,00	R 111 700,00
CTI	3.6.12	Allow for profit & attendance if required Provisional Sum	%		R 111 700,00	R
	3.6.13 3.6.14	Sundry Carpentry & Joinery Works Allow for profit & attendance if required	Sum %	1,00	R 111 700,00	
-		and the second s				
		CARRIED TO SECTION SUMMARY				R

ITEM N	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.7				
	CELLINGS DARTITIONS & ACCESS ELOOPING				
	CEILINGS, PARTITIONS & ACCESS FLOORING				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Fixing				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to bricwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm cetres, and where described as "bolted", the bolts have been given elsewhere.				
	Ceilings				
	Unless otherwise described ceilings shall be deemed to be horizontal				
	Bulkheads				
	Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. The purpose is either to conceal services or to create architectural features	1			
	Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings				
	Unless otherwise described bulkheads shall be deemed to be horizontal along the length				
	Steel components				
	All steel components for ceilings, partitions, etc are to be galvinised in accordance with SANS 121				
	SUSPENDED CEILINGS				
	9mm "Rhino" gypsum plasterboard with taped and skimmed joints				
CTI 3.7	Ceilings installed using propriety framing system all according to manufacturers specifications	m2	530,00	R	R
CTI 3.7		m2	440,00	R	R
CTI 3.7		m2	440,00	R	R

TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	600 x 1200mm panels on pre painted (pre-coated) suspension system including main and cross tees necessary hangers, grids, etc				
	Provide the prime cost of R 400.00/m2 for suspended ceiling system				
CTI 3.7.4	Ceilings suspended below soffits	m2	530,00	R	R
CTI 3.7.5	Horizontal bulkheads suspended below concrete soffits	m2	440,00	R	R
CTI 3.7.6	Sloping bulkheads suspended below concrete soffits	m2	440,00	R	R
CTI 3.7.7	Extra over ceiling for opening for sprinkler head	No	90,00	R	R
CTI 3.7.8	Extra over ceiling for opening for down lighter	No	90,00	R	R
CTI 3.7.9	Extra over ceiling for 600 x 1 200mm light fitting	No	90,00	R	R
	600mm x 600mm panels on pre painted (pre-coated) exposed tee suspension system				
	Provide the prime cost of R 400.00/m2 for suspended ceiling system				
CTI 3.7.10	Ceilings suspended below soffits	m2	530,00	R	R
CTI 3.7.11	Horizontal bulkheads suspended below concrete soffits	m2	440,00	R	R
CTI 3.7.12	Sloping bulkheads suspended below concrete soffits	m2	440,00	R	R
CTI 3.7.13	Extra over ceiling for opening for sprinkler head	No	90,00	R	R
CTI 3.7.14	Extra over ceiling for opening for down lighter	No	90,00	R	R
CTI 3.7.15	Extra over ceiling for 600 x 600mm light fitting	No	90,00	R	R
	Cornices to suspended ceilings				
	Provide the prime cost of R 80.00 per meter for cornices				
CTI 3.7.16	Pre-painted / coated cornices plugged	m	270,00	R	R
	Shadowline to suspended ceilings				
	Provide the prime cost of R 80.00 per meter for shadowline trim				
CTI 3.7.17	Pre-painted / coated shadowline trim fixed	m	270,00	R	R
	Insulation				
CTI 3.7.18	Isotherm 100mm thick polyester thermal ceiling insulation laid on ceilings (measured nett)	m2	890,00	R	R
	PARTITIONS				
	"76mm wide Rhino-Drywall System " steel stud partitioning with "12mm thick Rhino Wall board" on both sides including skirtings and top track all as per manufacturers specifications				
CTI 3.7.19	Partitioning up to 2 600mm high with bottom and top tracks plugged	m2	620,00	R	R
CTI 3.7.20	Partitioning up to 2 900mm high with bottom and top tracks plugged	m2	530,00	R	R
CTI 3.7.21	Partitioning up to 3 500mm high with bottom and top tracks plugged		440,00	R	
C11 3.7.21	ratificing up to 3 Southin high with bottom and top tracks plugged	m2	440,00	ı K	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		Provide the prime cost of R 2000.00 per door leaf & hinges for single door						
		<u>openings</u>						
СТІ	3.7.22	Extra over partitioning for Single Door hung to pressed steel door frame including additional studding, trimming, etc.	No	50,00	R		R	
		Provide the prime cost of R 3 500.00 for double door openings						
CTI	3.7.23	Extra over partitioning for Double Door hung to pressed steel door frame including additional studding, trimming, etc.	No	34,00	R		R	
		Materials & Plant						
СТІ	3.7.24	Provision for Sundry Materials & Plant	Prov	1,00	R	111 700,00	R	111 700,00
CTI	3.7.25	Allow for profit & attendance if required	%	-	R	111 700,00		
		Provisional Sum						
CTI	3.7.26	Sundry Ceilings, Partitions & Access Flooring Works	Sum	1,00	R	111 700,00	D	111 700,00
	3.7.27	Allow for profit & attendance if required	%	1,00	R	111 700,00		111 700,00
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.8				
	FLOOR COVERINGS, WALL LININGS, ETC				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Fixing				
	Tianig				
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc				
	Surface preparation, priming, curing, cleaning etc				
	Descriptions of the items below are deemed to include all necessary				
	preparation, priming, mixing, curing, cleaning etc as prescribed by the manufacturers of the various products				
	FLOOR COVERINGS				
	Provide the prime cost amount of R500.00 per m2 for supply and delivery of vinyl floor finishes laid with approved adhesive on screeds in accordance with manufacturers instructions				
CTI 3.8.1	On floors	m2	850,00	R	R
CTI 3.8.2	On treads and risers of stairs	m2	269,00	R	R
	High traffic epoxy floor paint 2.5 to 3mm thick as per specialists specifications				
CTI 3.8.3	On floors	m2	880,00	R	R
	Provide the prime cost amount of R500.00 per m2 for supply and delivery of carpet tiles laid with approved adhesive in accordance with manufacturers instructions				
	manufacturers mistractions				
CTI 3.8.4	On floors	m2	840,00	R	R
CTI 3.8.5	On treads and risers of stairs	m2	269,00	R	R
	Materials & Plant				
CTI 3.8.6	Provision for Sundry Materials & Plant	Prov	1,00	R 55 850,00) R 55 850,00
CTI 3.8.7	Allow for profit & attendance if required	%	•	R 55 850,00	
	Provisional Sum				
CTI 3.8.8	Sundry Floor Coverings Wall Linings etc Works	Sum	1,00	R 55 850,00) R 55 850,00
CTI 3.8.9	Allow for profit & attendance if required	%	1,00	R 55 850,00	
	CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.9				
	IRONMONGERY				
	PREAMBLES				
	INCAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	General				
	General				
	Corrosion proof ironmongery shall be provided as far as possible and shall				
	be fitted by professional carpenter				
	Proprietary items				
	Whose applicable the manufacturerel names or product estalogue titles				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-heading preceding the items				
	are given in sub-neading preceding the items				
	Prices are to be based on the specific products/articles specified. If				
	tenders wish to offer alternative products/articles for certain items, these				
	items are to be clearly marked and the alternative specification given with				
	supporting brochures etc clarifying the features of the products/articles				
	offered.				
	On request returnable samples are to be provided to the employer's				
	representative for consideration.				
	representative for consideration.				
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by				
	suffixes in accordance with the following list:				
	BS Satin bronze lacquered				
	CH Chromium plated				
	SC Satin chromium plated SE Silver enamelled				
	GE Grey enamelled				
	AN Anodised natural				
	AS Anodised silver				
	AB Anodised bronze				
	AG Anodised gold				
	ABL Anodised black				
	PB Polished brass				
	PL Polished and lacquered				
	PT Epoxy coated				
	SD Sanded				
	LOCKS, ETC				
	Provide the prime cost amount of PTEO 00 each for sulinder legislation				
	Provide the prime cost amount of R750.00 each for cylinder locksets installed complete				
	instancu compiete				
CTI 3.9.1	On single doors	No	360,00	R	R
CTI 3.9.2	On double doors	No	180,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HINGES, BOLTS, ETC				
		<u>Hinges</u>				
СТІ	3.9.3	Provide the prime cost amount of R350.00 for 100 x 75mm butt hinges (per pair) installed complete	No	668,00	R	R
		PUSH PLATES AND KICKING PLATES				
		Push plates, kick plates etc				
СТІ	3.9.4	Provide the prime cost amount of R750.00 each for Push Plates & Kick Plates installed complete	No	180,00	R	R
		DOOR CLOSERS				
		<u>Door Closers</u>				
СТІ	3.9.5	Provide the prime cost amount of R3000.00 each for door closers installed complete	No	360,00	R	R
		Panic Bolts etc				
СТІ	3.9.6	Provide the prime cost amount of R2500.00 each for panic bolts for single doors installed complete	No	90,00	R	R
СТІ	3.9.7	Provide the prime cost amount of R5500.00 each for panic bolts for double doors installed complete	No	40,00	R	R
		HANDLES				
		Handles etc				
СТІ	3.9.8	Provide the prime cost amount of R1000.00 each for door handles installed complete	No	310,00	R	R
		CATCHES, CABIN HOOKS, ETC				
		Cabin Hooks etc				
СТІ	3.9.9	Provide the prime cost amount of R300.00 each for cabin & coat hooks installed complete	No	40,00	R	R
		BATHROOM FITTINGS				
		Toilet Roll Holder				
СТІ	3.9.10	Provide the prime cost amount of R1000.00 each for toilet roll holder plugged to brickwork.	No	90,00	R	R
		Soap Dispenser				
СТІ	3.9.11	Provide the prime cost amount of R1000.00 each for soap dispenser plugged to brickwork.	No	90,00	R	R
		Stainless Steel Grab Rail				
СТІ	3.9.12	Provide the prime cost amount of R1000.00 each for stainless steel grab rails plugged to brickwork.	No	40,00	R	R
		SUNDRIES				
		"Solid"				

ITE	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
СТІ	3.9.13	Door stop (CZ8731CH) fixed with counter sunk-sunk bolt into anchor bolt	No	130,00	R		R	
		Materials & Plant						
	3.9.14	Provision for Sundry Materials & Plant	Prov	1,00	R	83 775,00	R	83 775,00
СТІ	3.9.15	Allow for profit & attendance if required	%		R	83 775,00	R	
		Provisional Sum						
	3.9.16 3.9.17	Sundry Floor Ironmongery Works Allow for profit & attendance if required	Sum %	1,00	R R	83 775,00 83 775,00	R R	83 775,00
		CARRIED TO SECTION SUMMAR	Y				R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.10				
	METALWORK				
	WETALWORK				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Descriptions of bolts, anchors, etc				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and				
	bolts shall be deemed to include nuts, wahers and mortices in brickwork				
	or concrete				
	Items described as "holed for bolt(s)" shall be deemed to exclude the				
	bolts unless otherwise described				
	Harvedon that a Walan and Halan and Halan and Later and				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm cetres				
	indie, plastic of frietal plugs at not exceeding doornin cetres				
	DOOR FRAMES, DOORS, ETC				
	Galvinised pressed steel door frames				
	1,6mm Thick single rebated heavy duty frame for half brick wall complete				
	with butt hinges and including setting up, building in, filling back of frame				
	with cement mortar, etc				
CTI 3.10.1	Frame for door 813 x 2032mm high with three 100mm steel hinges per	No	440,00	R	R
	leaf				
CTI 3.10.2	Frame for door 1613 x 2032mm high with three 100mm steel hinges per	No	270,00	R	R
C11 3.10.2	leaf	INO	270,00	N	, n
	1,6mm Thick single rebated heavy duty frame for one brick wall complete				
	with butt hinges and including setting up, building in, filling back of frame				
	with cement mortar, etc				
CTI 3.10.3	Frame for door 813 x 2032mm high with three 100mm steel hinges per	No	440,00	R	R
C113.10.3	leaf	INU	440,00	"	IN .
	1.55.				
CTI 3.10.4	Frame for door 1613 x 2032mm high with three 100mm steel hinges per	No	270,00	R	R
	leaf				
	And a Calle O. Plant				
	Materials & Plant				
CTI 3.10.5	Provision for Sundry Materials & Plant	Prov	1,00	R 677 025,00	R 677 025,00
CTI 3.10.6	Allow for profit & attendance if required	%	1,00	R 677 025,00	
	Provisional Sum				
			4.00	D 677.005.00	D 677.005.00
CT1 2 40 7	C				
CTI 3.10.7 CTI 3.10.8	Sundry Metalworks Mark up provision on sundry Metalorks	Sum %	1,00	R 677 025,00 R 677 025,00	

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARRIED TO CECTION SUPPLY				B
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.11				
	DIE NO.11				
	PLASTERING				
	PREAMBLES				
	FREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Granolithic				
	Method				
	The method to be used shall be either the monolithic method or the bonded method				
	Preparation				
	For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic				
	Mix				
	Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic				
	Panels				
	Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width				
	Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints				
	Laying				
			<u> </u>		
	Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Bonded granolithic shall be applied to the slab after applying a 1:1 sand- and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be throughly compacted and lightly wood floated to the required levels				
		After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated				
		Curing, seasoning and protection				
		Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying				
		Colour				
		Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour				
		CEMENT SCREED				
		Preparation				
		Screed to be steel trowelled, no dry mix allowed. Screeds to be level and even with high points ground down. Test samples to be provided of screeds. Moisture content to be checked with hydrometer (moisture not to exceed 75%) or tramex meter (moisture not to exceed 60%). Reading to be taken on average of every 30m. Test samples of screed to be provided. Where applicable, screed to falls to floor drain.				
		Mix				
		1:3 Cement/sand screed mix (SABS 471 and 1083 approved) level 1 standard, 25mpa.				
		SCREED				
		Screed to falls				
		Screeds wood floated, on concrete				
СТІ	3.11.1	25mm Thick on floors and landings	m2	1330,00	R	R
СТІ	3.11.2	30mm Thick on floors and landings	m2	440,00	R	R
СТІ	3.11.3	30mm Thick on floors on waterproofing membrane	m2	360,00	R	R
СТІ	3.11.4	Average 30mm thick on floors with upper surface to falls	m2	130,00	R	R
СТІ	3.11.5	Average 30mm thick on floors with upper surface to falls and currents	m2	130,00	R	R
СТІ	3.11.6	Average 40mm thick on roofs with upper surface to falls	m2	130,00	R	R
СТІ	3.11.7	Average 40mm thick on roofs with upper surface to falls and currents	m2	130,00	R	R
СТІ	3.11.8	25mm Thick on treads and risers of stairs including reedings	m2	130,00	R	R
СТІ	3.11.9	30mm Thick on treads and risers of stairs	m2	130,00	R	R
СТІ	3.11.10	30mm Thick on narrow widths not exceeding 300mm wide	m2	130,00	R	R
СТІ	3.11.11	Reedings in finish on ramps	m2	130,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
СТІ	3.11.12	50 x 50mm Triangular fillets against walls, kerbs, etc	m	130,00	R	R
		Screeds steel trowelled, on concrete				
СТІ	3.11.13	25mm Thick on floors and landings	m2	1330,00	R	R
СТІ	3.11.14	30mm Thick on floors and landings	m2	440,00	R	R
СТІ	3.11.15	30mm Thick on floors on waterproofing membrane	m2	360,00	R	R
СТІ	3.11.16	Average 30mm thick on floors with upper surface to falls	m2	130,00	R	R
СТІ	3.11.17	Average 30mm thick on floors with upper surface to falls and currents	m2	130,00	R	R
CTI	3.11.18	Average 40mm thick on roofs with upper surface to falls	m2	130,00	R	R
СТІ	3.11.19	Average 40mm thick on roofs with upper surface to falls and currents	m2	130,00	R	R
СТІ	3.11.20	25mm Thick on treads and risers of stairs including reedings	m2	130,00	R	R
СТІ	3.11.21	30mm Thick on treads and risers of stairs	m2	130,00	R	R
СТІ	3.11.22	30mm Thick on narrow widths not exceeding 300mm wide	m2	130,00	R	R
СТІ	3.11.23	Reedings in finish on ramps	m2	130,00	R	R
СТІ	3.11.24	50 x 50mm Triangular fillets against walls, kerbs, etc	m2	130,00	R	R
		GRANOLITHIC				
		Untinted granolithic on concrete				
СТІ	3.11.25	25mm Thick on floors and landings	m2	890,00	R	R
СТІ	3.11.26	30mm Thick on floors and landings	m2	440,00	R	R
СТІ	3.11.27	50mm Thick on floors and landings	m2	360,00	R	R
СТІ	3.11.28	Average 30mm thick on floors with upper surface to falls	m2	130,00	R	R
СТІ	3.11.29	Average 30mm thick on floors with upper surface to falls and currents	m2	130,00	R	R
СТІ	3.11.30	Average 40mm thick on roofs with upper surface to falls	m2	130,00	R	R
CTI	3.11.31	Average 40mm thick on roofs with upper surface to falls and currents	m2	130,00	R	R
СТІ	3.11.32	25mm Thick on treads and risers of stairs including reedings	m2	130,00	R	R
CTI	3.11.33	30mm Thick on treads and risers of stairs	m2	130,00	R	R
СТІ	3.11.34	30mm Thick on narrow widths not exceeding 300mm wide	m2	130,00	R	R
СТІ	3.11.35	Reedings in finish on ramps	m2	130,00	R	R
СТІ	3.11.36	Skirtings 100mm high	m	130,00	R	R
	3.11.37	Skirtings 100mm high stepped over treads and risers	m	130,00	R	R
		EXTERNAL PLASTER		,		
		Class I cement plaster on brickwork				
		and the content protect on otherwork				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		Class I cement plaster on concrete						
CTI	3.11.39	On walls / columns	m2	890,00	R		R	
CTI	3.11.40	On soffits / beams	m2	890,00	R		R	
		INTERNAL PLASTER						
		Class I cement plaster on brickwork						
CTI	3.11.41	On walls	m2	2050,00	R		R	
		Class I cement plaster on concrete						
CTI	3.11.42	On walls/ columns	m2	890,00	R		R	
CTI	3.11.43	On soffits / beams	m2	890,00	R		R	
		Rhinolite skim plaster 20mm thick with smooth trowel finish		,				
СТІ	3.11.44	On partition walls	m2	960,00	R		R	
CTI	3.11.45	On plaster board ceilings	m2	890,00	R		R	
CTI	3.11.46	On bulkheads	m2	890,00	R		R	
		CORNER PROTECTORS, DIVIDING STRIPS, ETC						
CTI	3.11.47	3 x 25mm Flat section galvanised mild steel dividing strip set on edge in screed between different floor finishes	m	530,00	R		R	
СТІ	3.11.48	3 x 25mm Flat section brass dividing strip or waterbar set on edge in screed between different floor finishes	m	530,00	R		R	
		Materials & Plant						
CTI	3.11.49	Provision for Sundry Materials & Plant	Prov	1,00	R	55 850,00	R	55 850,00
	3.11.50	Allow for profit & attendance if required	%		R	55 850,00		
		Provisional Sum						
	3.11.51	Sundry Plasterworks	Sum	1,00	R	55 850,00		55 850,00
CTI	3.11.52	Allow for profit & attendance if required	%		R	55 850,00	R	
		CARRIED TO SECTION SUMMARY					R	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.12				
		TILING				
		PREAMBLES				
		PREAIVIBLES				
		The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		Fixing				
		Descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat. Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with adhesives and grouts from the "tal Goldstar" range or equal approved.				
		WALL TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic wall tiles				
		fixed with adhesive to:				
CTI	3.12.1	On walls	m2	890,00	R	R
CTI	3.12.2	On narrow widths	m2	270,00	R	R
		Provide the prime cost amount of R 500.00 per m2 for porcelain wall tiles				
		fixed with adhesive to:				
CTI	3.12.3	On walls	m2	890,00	R	R
CTI	3.12.4	On narrow widths	m2	270,00	R	R
		FLOOR TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic floor tiles				
		fixed with adhesive to:				
CTI	3.12.5	On floors	m2	1336,00	R	R
СТІ	3.12.6	On narrow widths	m2	270,00	R	R
CTI	3.12.7	On floors landings in patterns	m2	440,00	R	R
		Provide the prime cost amount of R 500.00 per m2 for porcelain floor tiles fixed with adhesive to:				
CTI	3.12.8	On floors	m2	1330,00	R	R
	2.42.0	On narrow widths	m2	270,00	R	R
CTI	3.12.9					

CTI 3.12.18 Allow for profit & attendance if required	OUNT
Aluminium dividing strips Provide the prime cost amount of R 75.00 per m for dividing strips: CTI 3.12.11 Flat section dividing strips between tiles m 180,00 R R R CTI 3.12.12 L-section dividing strips between tiles m 180,00 R R R Aluminium / Stainless steel/ Brass/ corner protectors, stair nosings, expansion joint strips, etc Provide the prime cost amount of R 200.00 per m for trims: CTI 3.12.13 Corner protectors m 90,00 R R R CTI 3.12.14 Stair nosings m 90,00 R R R CTI 3.12.15 Single expansion joint strips with vinyl rubber inlay m 90,00 R R CTI 3.12.16 Double expansion joint strips with vinyl rubber inlay m 90,00 R R CTI 3.12.17 Provision for Sundry Materials & Plant CTI 3.12.18 Allow for profit & attendance if required % R 139 625,00 R Provisional Sum CTI 3.12.19 Sundry Tiling Works Sum 1,00 R 139 625,00 R	
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CTI 3.12.19 Sundry Tiling Works Sum 1,00 R 139 625,00 R	
CTI 3.12.19 Sundry Tiling Works Sum 1,00 R 139 625,00 R	
CTI 3.12.20 Mark up provision on sundry Tiling Works	139 625,00
CARRIED TO SECTION SUMMARY R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.13				
	PLUMBING & DRAINAGE				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Wire gratings				
	Descriptions of gutter outlets etc shall be deemed to include wire balloon				
	gratings				
	Stormwater channels				
	Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on				
	site				
	Stainless steel basins, sinks, wash troughs, urinals, etc				
	Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)				
	17/06 430 (17/0)				
	Stainless steel for basins, quality sinks, wash troughs, institutional				
	equipment, etc shall be Type 304 (18/8)				
	Haita aball baya standard agrees and Hayranad adays and tiling layer				
	Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable				
	against wans where appreasie				
	Sealing of edges				
	Outer edges of sinks, basins, etc are to be sealed against adjacent surfaces				
	with approved silicone				
	uPVC pipes and fittings				
	Sewer and drainage pipes and fittings shall be jointed and sealed with				
	butyl rubber rings				
	Soil, waste and vent pipes and fittings shall be solvent weld jointed or				
	sealed with butyl rubber rings				
	, 0-				
	uPVC pressure pipes and fittings				
	Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings				
	שיבועבע ער ייב וטטפ פטנגבנפ מווע ווגנוווצפ				
	Pipes of 63mm diameter and greater shall have sockets and spigots with				
	push-in type integral rubber ring joints. Bends shall be uPVC and all other				
	fittings shall be cast iron, all with similar push-in type joints				
	High density as heath days (1988) at a condition				
	High density polyethylene (HDPe) pipes and fittings				
	Pipes shall be type IV and of the class specified with "Plasson" or				
	"Alprene" compression fittings				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Copper pipes				
	Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016				
	Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition				
	Reducing fittings				
	Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained				
	Fixing of pipes				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level				
	Paper wrapping to pipes				
	Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings				
	Disinfection of water pipework				
	Water pipework is to be disinfected at completion in accordance with SABS 1200L				
	"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.				
	Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps				
	Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc				
	Prices for wrapping of pipes shall include for all work as described to couplings in the length				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
	Where no manufacturers' instructions exist, pipes shall be laid in accordance with each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers SABS 1200LE: Stormwater drainage				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB : Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	General				
	Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)				
	Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends				
	Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction and disposal of surplus material on site				
	Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)				
	Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes				
	As-built drawings				
	Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract/package the contractor shall hand these drawings to the employer's representative for reproducing onto the originals for handing over to the employer				
	SANITARY FITTINGS				
	NOTE:				
	All fittings butting up against wall or floor finishes or fitting into preformed openings in timber tops are to be sealed with an approved all purpose silicone sealant				
	Prices for sinks described as drop in are to include for preparing the worktop to receive the fitting and securely fixing sinks to worktops using clips provided. The contractor is to provide worktop manufacturers with details of cut outs to ensure that the cut openings are sufficiently accurate to provide proper engagement for these clips				
	Note: Stainless steel for urinals, basins, sinks, etc, shall be type 304 (18/8)				
	304 Stainless Steel				
	Provide the prime cost amount of R 1800.00 each for wash troughs:				
CTI 3.13.1	Single bowl wash trough. Unit to be fixed to the wall with a pair of Stainless Steel wallfixing brackets.	No	40,00	R	R

TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Provide the prime cost amount of R 3200.00 each for wash troughs:				
CTI 3.13.2	Double bowl wash trough. Unit to be fixed to the wall with a pair of Stainless Steel wallfixing brackets.	No	30,00	R	R
	Sinks				
	Provide the prime cost amount of R 1800.00 each for sinks:				
CTI 3.13.3	Stainless steel single end bowl sink and drainer set in top of timber / stone counter top (Elsewhere measured).	No	40,00	R	R
	Provide the prime cost amount of R 3200.00 each for wash troughs:				
CTI 3.13.4	Stainless steel double bowl sink and drainer set in top of timber / stone counter top (Elsewhere measured).	No	30,00	R	R
	Wash hand basin				
CTI 3.13.5	Provide the prime cost amount of R 2200.00 each for wall mounted basin	No	30,00	R	R
	Wash hand basin "Paraplegic"				
CTI 3.13.6	Provide the prime cost amount of R 2200.00 each for wall mounted paraplegic basin	No	20,00	R	R
	<u>Urinals</u>				
CTI 3.13.7	Provide the prime cost amount of R 5000.00 each for wall mounted urinals	No	30,00	R	R
	Toilets etc				
CTI 3.13.8	Provide the prime cost amount of R 4000.00 each for toilets installed complete	No	70,00	R	R
CTI 3.13.9	Provide the prime cost amount of R 5000.00 each for paraplegic toilets installed complete		30,00	R	R
	WASTE UNIONS ETC				
	"Cobra Watertech" or equal approved				
CTI 3.13.10	40mm Wash trough waste	No	130,00	R	R
	TRAPS ETC				
	PVC				
CTI 3.13.11	Rubber waste reseal "P" 32x40mm (basin)	No	130,00	R	R
	TAPS, VALVES, ETC				
	Taps, showers etc				
				1	1

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
СТІ	3.13.13	Provide the prime cost amount of R 1500.00 each for shower heads	No	30,00	R	R
СТІ	3.13.14	Provide the prime cost amount of R 2000.00 each for shower mixers	No	30,00	R	R
СТІ	3.13.15	22mm Brass Non-return valve	No	40,00	R	R
		SANITARY PLUMBING				
		uPVC soil and vent pipes				
СТІ	3.13.16	40mm Diameter Pipes	m	200,00	R	R
CTI	3.13.17	50mm Diameter Pipes	m	200,00	R	R
СТІ	3.13.18	75mm Diameter Pipes	m	200,00	R	R
CTI	3.13.19	110mm Diameter Pipes	m	200,00	R	R
		Extra over uPVC soil and vent pipes for fittings				
СТІ	3.13.20	40mm Bend	No	70,00	R	R
СТІ	3.13.21	40mm Inspection bend	No	70,00	R	R
CTI	3.13.22	40mm Junction	No	70,00	R	R
	3.13.23	50mm BSP adaptor	No	70,00	R	R
	3.13.24	50mm Bend	No	70,00	R	R
			NO		N.	N .
СТІ	3.13.25	50mm Inspection bend	No	70,00	R	R
СТІ	3.13.26	50mm Junction	No	70,00	R	R
СТІ	3.13.27	50mm Access bend	No	70,00	R	R
СТІ	3.13.28	50mm vent valve	No	70,00	R	R
СТІ	3.13.29	50mm Two way vent valve	No	70,00	R	R
СТІ	3.13.30	50mm Inspection junction	No	70,00	R	R
СТІ	3.13.31	75mm Bend	No	70,00	R	R
СТІ	3.13.32	75mm Inspection bend	No	70,00	R	R
CTI	3.13.33	75mm Junction	No	70,00	R	R
CTI	3.13.34	75mm Inspection junction	No	70,00	R	R
СТІ	3.13.35	75mm Reducing junction	No	70,00	R	R
СТІ	3.13.36	75mm Inspection reducing junction	No	70,00	R	R
	3.13.37	75mm Reducer	No	70,00	R	R
	3.13.38	110mm Bend	No	70,00	R	R
СТІ	3.13.39	110mm Inspection bend	No	70,00	R	R
СТІ	3.13.40	110mm Junction	No	70,00	R	R

ITEN	NO IV	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
СТІ	3.13.41	110mm Inspection junction	No	70,00	R	R
СТІ	3.13.42	110mm Reducing junction	No	70,00	R	R
СТІ	3.13.43	110mm Inspection reducing junction	No	70,00	R	R
СТІ	3.13.44	110mm Reducer	No	70,00	R	R
СТІ	3.13.45	110mm Pan connector	No	70,00	R	R
СТІ	3.13.46	110mm Two way vent valve	No	70,00	R	R
		Testing				
СТІ	3.13.47	Testing waste pipe system	Item	1,00	R	R
		WATER SUPPLIES				
		Class 0 copper pipes with brass compression couplings				
СТІ	3.13.48	15mm Pipes	m	200,00	R	R
СТІ	3.13.49	15mm Pipes chased into brickwork or concrete	m	200,00	R	R
СТІ	3.13.50	22mm Pipes	m	200,00	R	R
	3.13.51	22mm Pipes chased into brickwork or concrete	m	200,00	R	R
	3.13.52	28mm Pipes	m	200,00	R	R
				•		
	3.13.53	28mm Pipes chased into brickwork or concrete	m	200,00	R	R
СТІ	3.13.54	35mm Pipes	m	200,00	R	R
СТІ	3.13.55	35mm Pipes chased into brickwork or concrete	m	200,00	R	R
СТІ	3.13.56	42mm Pipes	m	200,00	R	R
СТІ	3.13.57	54mm Pipes	m	200,00	R	R
СТІ	3.13.58	67mm Pipes	m	200,00	R	R
СТІ	3.13.59	76mm Pipes	m	200,00	R	R
СТІ	3.13.60	108mm Pipes	m	200,00	R	R
		Extra over Class 0 copper pipes for capillary fittings				
СТІ	3.13.61	15mm Fittings	No	70,00	R	R
СТІ	3.13.62	22mm Fittings	No	70,00	R	R
СТІ	3.13.63	28mm Fittings	No	70,00	R	R
CTI	3.13.64	35mm Fittings	No	70,00	R	R
	3.13.65	42mm Fittings	No	70,00	R	R
	3.13.66	54mm Fittings	No	70,00	R	R
СТІ	3.13.67	67mm Fittings	No	70,00	R	R
СТІ	3.13.68	76mm Fittings	No	70,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
СТІ	3.13.69	108mm Fittings	No	70,00	R	R
		Extra over Class 0 copper pipes for brass compression fittings				
СТІ	3.13.70	15mm Fittings	No	70,00	R	R
СТІ	3.13.71	22mm Fittings	No	70,00	R	R
СТІ	3.13.72	28mm Fittings	No	70,00	R	R
СТІ	3.13.73	35mm Fittings	No	70,00	R	R
CTI	3.13.74	42mm Fittings	No	70,00	R	R
СТІ	3.13.75	54mm Fittings	No	70,00	R	R
CTI	3.13.76	67mm Fittings	No	70,00	R	R
CTI	3.13.77	76mm Fittings	No	70,00	R	R
СТІ	3.13.78	108mm Fittings	No	69,00	R	R
		Class 12.5 "HDPE" Pipes				
СТІ	3.13.79	20mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	200,00	R	R
СТІ	3.13.80	32mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	200,00	R	R
СТІ	3.13.81	40mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	200,00	R	R
СТІ	3.13.82	50mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	200,00	R	R
СТІ	3.13.83	75mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	200,00	R	R
СТІ	3.13.84	90mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	200,00	R	R
СТІ	3.13.85	110mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	200,00	R	R
		Extra over "HDPE" for fittings				
CTI	3.13.86	20mm Diameter Straight Coupling	No	70,00	R	R
	3.13.87	20mm Diameter Reducing Coupling	No	70,00	R	R
	3.13.88	20mm Diameter Equal Tee	No	70,00	R	R
	3.13.89	20mm Diameter Male Adaptor	No	70,00	R	R

ITEM NO	0	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI 3.13	3.90	20mm Diameter 90 Degree Elbow	No	70,00	R	R
CTI 3.13	3.91	40mm Diameter Straight Coupling	No	70,00	R	R
CTI 3.13	3.92	40mm Diameter Reducing Coupling	No	70,00	R	R
CTI 3.13	3.93	40mm Diameter Equal Tee	No	70,00	R	R
CTI 3.13	3.94	40mm Diameter Male Adaptor	No	70,00	R	R
CTI 3.13	3.95	40mm Diameter 90 Degree Elbow	No	70,00	R	R
CTI 3.13	3.96	50mm Diameter Straight Coupling	No	70,00	R	R
CTI 3.13	3.97	50mm Diameter Reducing Coupling	No	70,00	R	R
CTI 3.13		50mm Diameter Equal Tee	No	70,00	R	R
CTI 3.13		50mm Diameter Male Adaptor	No	70,00	R	R
		·				
		50mm Diameter 90 Degree Elbow	No	70,00	R	R
		75mm Diameter Straight Coupling	No	70,00	R	R
CTI 3.13	3.102	75mm Diameter Reducing Coupling	No	70,00	R	R
CTI 3.13	3.103	75mm Diameter Equal Tee	No	70,00	R	R
CTI 3.13	3.104	75mm Diameter Male Adaptor	No	70,00	R	R
CTI 3.13	3.105	75mm Diameter 90 Degree Elbow	No	70,00	R	R
CTI 3.13	3.106	90mm Diameter Straight Coupling	No	70,00	R	R
CTI 3.13	3.107	90mm Diameter Reducing Coupling	No	70,00	R	R
CTI 3.13	3.108	90mm Diameter Equal Tee	No	70,00	R	R
CTI 3.13	3.109	90mm Diameter Male Adaptor	No	70,00	R	R
CTI 3.13	3.110	90mm Diameter 90 Degree Elbow	No	70,00	R	R
		110mm Diameter Straight Coupling	No	70,00	R	R
		110mm Diameter Reducing Coupling	No	69,00	R	R
		110mm Diameter Equal Tee			R	R
			No	65,00		
		110mm Diameter Male Adaptor	No	65,00	R	R
CTI 3.13		110mm Diameter 90 Degree Elbow	No	65,00	R	R
		ELECTRIC WATER HEATERS				
		"Kwikot" or similar approved including all fittings, adaptors, couplings, etc, for connection to the relevant piping.				
CTI 3.13		Provide the prime cost amount of R 3000.00 each for undercounter geysers	No	25,00	R	R
		Provide the prime cost amount of R 7000.00 each for 100 litre geysers	No	25,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI	3.13.118	Provide the prime cost amount of R 9000.00 each for 150 litre geysers	No	25,00	R	R
СТІ	3.13.119	Provide the prime cost amount of R 11000.00 each for 200 litre geysers	No	15,00	R	R
		Testing				
CTI	3.13.120	Testing supply water pipe system	Item	1,00	R	R
		HOLES ETC				
		Core drilling of hole for pipe not exceeding 50mm diameter				
CTI	3.13.121	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	30,00	R	R
		Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter				
CTI	3.13.122	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	30,00	R	R
		Materials & Plant				
		Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 167 550,00	
		Provisional Sum				
		Sundry Plumbing Works Allow for profit & attendance if required	Sum %	1,00	R 167 550,00 R 167 550,00	
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.14				
	PAINTWORK				
	DDEAMDLEC				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	PREPARATORY WORK TO EXISTING WORK				
	But to describe the total of				
	Previously painted plastered surfaces				
	Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	Previously painted wood surfaces				
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
	Paintwork to steel surfaces				
	Steel surfaces to be cleaned of all rust, scale and dirt, removed by scraping or with steel wire brush. All oil and grease shall also be removed to obtain a perfectly clean surface. After removing rust from steel, steel is to be painted with a suitable rust converter and primer. Finish with a quality, extremely durable, washable and pure acrylic emulsion enamel paint. For steel door frames, clean down with galvkleen to manufacturers specification before applying primer for galvanised iron. All door frames to be finished with a Water-Based premium quality satin finish non-drip enamel paint.				
	Paintwork to timber surfaces				
	Exposed timber trusses etc. are to be sanded down to smooth finish working in direction of grain. Apply first coat paint thinned 10 parts paint and one part water for penetration. Apply 1 to 2 further coats unthinned (depending on coverage). All to manufacturer specifications. Colour as per architects spec. Timber door surfaces must be dry, clean and free of contaminants. Sand to a smooth surface, free of loose fibres. Remove all dust prior to the application of the basecoat.				
	PAINT SPECIFICATIONS				
	COLOURS				
	Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091.				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		NOTE: All paint products utilised must be SABS/SANS approved. All paint products utilised must be suitable for use in commercial/industrial applications. Acceptable products include proffesional or trade ranges from paint manufacturers. All products utilised must be suited to the application in which it will be used. Paint utilised must perform in accordance with applicable and relevant SANS codes/standards				
		The client reserves the right to reject paint coatings / paint systems that perform poorly / fail due to inferior quality/ that are not SABS approved.				
		PAINTWORK TO NEW WORK				
		"Plascon professional range" or equal approved				
		One coat "Professional Gypsum & Plaster Primer" with an overcoating time of 16 hours and finish with three coats finishing coat (Professional Superior Low Sheen acrylic emulsion paint)				
СТІ	3.14.1	On internal walls	m2	2000,00	R	R
СТІ	3.14.2	On external walls	m2	2000,00	R	R
CTI	3.14.3	On ceilings and beams	m2	1780,00	R	R
		One coat "Professional Gypsum & Plaster Primer" with an overcoating time of 16 hours and finish with three coats finishing coat (Professional Superior Matt Paint acrylic emulsion paint)				
СТІ	3.14.4	On partitions	m2	1330,00	R	R
CTI	3.14.5	On ceilings and cornices	m2	1330,00	R	R
СТІ	3.14.6	On fascias and barge boards	m2	440,00	R	R
		Apply one coat Professional Alkali resistant plaster primer and three coats Paint (Professional Superior Matt Paint)				
СТІ	3.14.7	On Rhinolite walls	m2	1330,00	R	R
		ON METAL				
		Prime bare metal surfaces with "Superior Quality" zinc chromate and apply one undercoat and two coats paint on steel (Professional high gloss enamel paint)				
СТІ	3.14.8	On doors	m2	440,00	R	R
СТІ	3.14.9	On door frames	m2	440,00	R	R
СТІ	3.14.10	On windows	m2	440,00	R	R
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)				
СТІ	3.14.11	On palisade fencing	m2	890,00	R	R
СТІ	3.14.12	On steel barriers	m2	440,00	R	R
СТІ	3.14.13	On balustrades	m2	440,00	R	R
СТІ	3.14.14	On gates, grilles, burglar screens etc.	m2	440,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		ON WOOD				
		One coat wood primer, one undercoat & two coats alkyd enamel paint (Professional gloss enamel paint)				
CTI	3.14.15	On boarded panelling	m2	440,00	R	R
	3.14.16	On boarded ceilings	m2	440,00	R	R
	3.14.17	On doors	m2	440,00	R	R
CTI	3.14.18	On door frames	m2	440,00	R	R
СТІ	3.14.19	On skirtings	m	440,00	R	R
		Prime bare areas with "Wood Primer" and apply two coats "Timber Varnish" (High gloss wood varnish)				
СТІ	3.14.20	On boarded panelling	m2	440,00	R	R
СТІ	3.14.21	On boarded ceilings	m2	440,00	R	R
CTI	3.14.22	On doors	m2	440,00	R	R
CTI	3.14.23	On door frames	m2	440,00	R	R
CTI	3.14.24	On skirtings	m	440,00	R	R
		STEEL ROOFS				
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)				
СТІ	3.14.25	On metal roof sheets	m2	2500,00	R	R
CTI	3.14.26	To cladding sheets	m2	890,00	R	R
		PREVIOUSLY PAINTED SURFACES				
		"Plascon professional range" or equal approved				
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
СТІ	3.14.27	On internal walls	m2	1780,00	R	R
СТІ	3.14.28	On external walls	m2	1780,00	R	R
CTI	3.14.29	On ceilings and beams	m2	1330,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Matt Paint)				
СТІ	3.14.30	On partitions	m2	1330,00	R	R
CTI	3.14.31	On ceilings and cornices	m2	1330,00	R	R
CTI	3.14.32	On fascias and barge boards	m2	440,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
CTI	3.14.33	On Rhinolite walls	m2	1000,00	R	R

ITEM	NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		METAL SURFACES WITH						
		Prime bare metal surfaces with "Superior Quality" zinc chromate and apply one undercoat and two coats paint on steel (Professional high gloss enamel paint)						
CTI 3	3.14.34	Windows and door frames	m2	440,00	R		R	
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)						
CTI 3	3.14.35	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat ares)	m2	500,00	R		R	
		PAINT ON WOOD						
		Prepare and apply two full coats plascon alkyd enamel paint						
CTI 3	3.14.36	On general surfaces	m2	440,00	R		R	
		Prepare and apply two full coats plascon alkyd enamel paint						
CTI 3	3.14.37	On boarded panelling	m2	440,00	R		R	
CTI 3	3.14.38	On boarded ceilings	m2	440,00	R		R	
CTI 3	3.14.39	On doors	m2	440,00	R		R	
CTI 3	3.14.40	On door frames	m2	440,00	R		R	
CTI 3	3.14.41	On skirtings	m	440,00	R		R	
		Prepare and apply two coats "Timber Varnish" (High gloss wood varnish)						
CTI 3	3.14.42	On boarded panelling	m2	440,00	R		R	
CTI 3	3.14.43	On boarded ceilings	m2	440,00	R		R	
CTI 3	3.14.44	On doors	m2	440,00	R		R	
CTI 3	3.14.45	On door frames	m2	440,00	R		R	
CTI 3	3.14.46	On skirtings	m	440,00	R		R	
		STEEL ROOFS						
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)						
CTI 3	3.14.47	On metal roof sheets	m2	3500,00	R		R	
CTI 3	3.14.48	To cladding sheets	m2	450,00	R		R	
		Materials & Plant						
	3.14.49 3.14.50	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	139 625,00 139 625,00		139 625,0
5.113		Provisional Sum	,,					
CTI 2	3.14.51	Sundry Paint Works	Sum	1,00	R	139 625,00	R	139 625,0
	3.14.52	Allow for profit & attendance if required	% %	1,00	R	139 625,00		135 023,00

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1					
 					
\vdash					
	CARRIED TO SECTION SUMMARY				R

	SECTION 3 SUMMARY - BUILDING WORKS	PAGE NO.	AMOUNT
		171021101	
1	Alterations	16	R
2	Earthworks	19	R
3	Concrete, Formwork & Reinforcement	24	R
4	Masonry	27	R
5	Waterproofing	30	R
6	Carpentry & Joinery	32	R
7	Ceilings, Partitions & Access Flooring	35	R
8	Floor Coverings, Wall Linings etc	36	R
9	Ironmongery	39	R
10	Metalwork	41	R
11	Plastering	45	R
12	Tiling	47	R
13	Plumbing & Drainage	56	R
14	Paintwork	61	R
	CARRIED TO SITE	SUMMARY	R

				CLUSTER 2 CTIA		
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
	SECTION 4					
	EXTERNAL WORKS					
	BILL NO.1					
	ROADWORKS					
	PREAMBLES					
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)					
	SUPPLEMENTARY PREAMBLES					
	Testing of material and filling					
	Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series					
	Site preparation					
CTI 4.1.1	Trim and level terraced area and compact to set levels.	m2	1330,00	R	R	
	Digging up topsoil					
CTI 4.1.2	Digging up topsoil to an average depth of 150mm and preserving for use as filling	m3	270,00	R	R	
	BULK EXCAVATION, FILLING ETC					
CTI 4.1.3	Open face excavation in earth over sloping site	m3	180,00	R	R	
	Excavation					
CTI 4.1.4	Excavate in earth not exceeding 1000mm deep	m3	90,00	R	R	
	Keeping excavations free of water					
CTI 4.1.5		Itom	1.00	R	D	
C11 4.1.5	Keeping excavations free of water	Item	1,00	K	R	
	Extra over all excavations for carting away					
CTI 4.1.6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	220,00	R	R	
	LAYER WORK					
	Earth filling obtained from the excavations and/or prescribed stock piles on site					
CTI 4.1.7	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	70,00	R	R	
	Filling supplied by the contractor under parking areas, roadways, etc					
CTI 4.1.8	25mm thick clean, dry river sand layer treated with an approved weed killer at a rate of 50 grams per square metre, spread and levelled to receive paving blocks (elsewhere)	m2	440,00	R	R	

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI	4.1.9	G8 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	40,00	R	R
СТІ	4.1.10	G7 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	40,00	R	R
СТІ	4.1.11	G7 Gravel-soil material in 150mm layers compacted to 95% Mod AASHTO density	m3	40,00	R	R
СТІ	4.1.12	Extra over for G7 stabilised with Portland cement compacted to 95% Mod AASHTO density	m3	40,00	R	R
СТІ	4.1.13	Subbase course of G6 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	40,00	R	R
CTI	4.1.14	G5 Natural gravel material compacted in 150mm layers to 93% Mod AASHTO density	m3	40,00	R	R
СТІ	4.1.15	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	40,00	R	R
СТІ	4.1.16	Base course of G4 natural gravel material in 150mm layers compacted to 98% Mod AASHTO density	m3	40,00	R	R
CTI	4.1.17	G2 base compacted to 100% Mod AASHTO density	m3	40,00	R	R
		Compaction of surfaces				
CTI	4.1.18	Compaction of ground surfaces under roadworks etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Roadbed)	m2	1330,00	R	R
		SOIL POISONING				
		301E1 0130MiNG				
		Weedkiller (active ingredients metolachlor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) or similar approved mixed in the proportion of 100 ml weedkiller to 100l water and applied at a rate of 10 l/m2				
CTI	4.1.19	Under roads, paving etc.	m2	1330,00	R	R
		TESTS				
CTI	4.1.20	Prescribed tests to determine degree of compaction or similar approved properties of ground or filling				
СТІ	4.1.21	"Modified AASHTO Density" test	No	1,00	R	R
СТІ	4.1.22	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	1,00	R	R
СТІ	4.1.23	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	1,00	R	R
СТІ	4.1.24	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	1,00	R	R
СТІ	4.1.25	UCS test in accordance with method A14 of TMH 1	No	1,00	R	R
					1	1

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	PAVING				
	Provide the prime cost of R 500.00 per square metre for paving bricks delivered to site in accordance with SANS 1058, laid to falls on and including 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor				
CTI 4.1.2	6 Paving to roadwork and parking to falls	m2	1404,00	R	R
CTI 4.1.2	7 Extra over for curved edges	m	440,00	R	R
	Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing				
	KERBS ETC				
CTI 4.1.2	8 Fig.1 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.2	9 Fig.2 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	Fig.3 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	Fig.4 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	Fig.5 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	Fig.6 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	4 Fig.6 Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	5 Fig.7 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	6 Fig.8 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	7 Fig.8b Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	8 Fig.8c Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.3	9 Fig.12 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.4	0 Fig.14 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CTI 4.1.4	Fig.16 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
	TRAFFIC SIGNS AND ROAD MARKINGS				
	Prepare and apply one coat reflective road marking paint on bituminous road surfacing, precast concrete paving blocks, etc				
CTI 4.1.4	2 100mm Wide line	m	90,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE	F	AMOUNT
CTI	4.1.43	150mm Wide line	m	90,00	R		R	
		130mm Wide mie	111	90,00	N		N	
CTI	4.1.44	300mm Wide line	m	40,00	R		R	
СТІ	4.1.45	Standard type directional arrow not exceeding 1m2	No	1,00	R		R	
СТІ	4.1.46	2500 x 2000mm Wide "traffic arrow" road marking paint	No	1,00	R		R	
СТІ	4.1.47	5400 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
CTI	4.1.48	6000 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
CTI	4.1.49	Standard directional arrow signs not exceeding 2m2	No	1,00	R		R	
		Materials & Plant						
	4.4.50			4.00			_	55.050.00
		Provision for Sundry Materials & Plant	Prov	1,00	R	55 850,00	R	55 850,00
CII	4.1.51	Allow for profit & attendance if required	%		R	55 850,00	R	
		Provisional Sum						
CTI	4.1.52	Sundry Road Works	Sum	1,00	R	55 850,00	R	55 850,00
	4.1.53	Allow for profit & attendance if required	%	1,00	R	55 850,00		33 830,00
		CARRIED TO SECTION SUPPLY AND					В	
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 4				
	EXTERNAL WORKS				
	BILL NO.2				
	DRAINAGE				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
	Where no manufacturers' instructions exist, pipes shall be laid in accordance with each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers SABS 1200LE: Stormwater drainage				
	Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB : Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	STORM WATER PIPE				
	Heavy duty uPVC storm water pipes				
CTI 4.2.1	110mm Diameter pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	370,00	R	R
	Extra over for uPVC fittings				
CTI 4.2.2	110mm Bend	No	50,00	R	R
CTI 4.2.3	110mm Junction	No	50,00	R	R
CTI 4.2.4	110mm Access junction	No	50,00	R	R
CTI 4.2.5	110mm Rodding Eye	No	50,00	R	R
	uPVC pipe Class 34 HD				
CTI 4.2.6	160mm Pipes laid in and including trenches(trench to be opened and banked at 1;3 grade allowing pipe to be exposed)	m	290,00	R	R
	Extra over for uPVC fittings				
	160mm Bend	No	50,00	R	R
CTI 4.2.7	100mm Bend		,		

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CTI 4.2.9	160mm Access junction	No	50,00	R	R
CTI 4.2.10	160mm Rodding Eye	No	50,00	R	R
CTI 4.2.11	Catch pits and junction boxes	No	48,00	R	R
	MANHOLES ETC				
	Construct 1420mm x 1420mm brick manholes with medium duty cast iron manhole cover and frame including excavations, backfilling, compaction and cartaway surplus material, spacer, adaptor slabs, benching, junctions,				
	channelling and step irons for the following depths:				
CTI 4.2.12	Over 0m and up to 1.0m	No	14,00	R	R
CTI 4.2.13	Over 1.0m and up to 2.0m	No	13,00	R	R
CTI 4.2.14	Over 2m and up to 3m	No	12,00	R	R
CTI 4.2.15	Over 3m and up to 4m	No	11,00	R	R
	Construct 1420mm x 1420mm brick manholes with heavy duty cast iron manhole cover and frame including excavations, backfilling, compaction and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
CTI 4.2.16	Over 0m and up to 1.0m	No	1,00	R	R
CTI 4.2.17	Over 1.0m and up to 2.0m	No	1,00	R	R
CTI 4.2.18	Over 2m and up to 3m	No	1,00	R	R
CTI 4.2.19	Over 3m and up to 4m	No	1,00	R	R
- 112.23		110	1,00		
	Testing Drainage System				
C11 4.2.20	Testing soil drainage pipe system Materials & Plant	Item	1,00	R	R
CTI 4.2.21		Prov	1,00	R 77 925,00	
CTI 4.2.22	Allow for profit & attendance if required	%		R 77 925,00	R
	Provisional Sum				
CTI 4.2.23 CTI 4.2.24		Sum %	1,00	R 77 925,00 R 77 925,00	
					_
	CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 4				
	EXTERNAL WORKS				
	DILL NO 2				
	BILL NO.3				
	SEWER RETICULATION				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
	Where no manufacturers' instructions exist, pipes shall be laid in accordance with each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers SABS 1200LE: Stormwater drainage				
	Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB : Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	Sewer manhole/ inspection chambers				
	Construct 1420mm x 1420mm brick manholes with medium duty cast iron				
	manhole cover and frame including excavations, backfilling, compaction				
	and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
CTI 4.3.1	Over 0m and up to 1.0m	No	14,00	R	R
CTI 4 2 2	Over 1 0m and up to 2 0m	No	12.00	D	D
CTI 4.3.2	Over 1.0m and up to 2.0m	No	13,00	R	R
CTI 4.3.3	Over 2m and up to 3m	No	12,00	R	R
CTI 4.3.4	Over 3m and up to 4m	No	11,00	R	R
	Construct 1/20mm v 1/20mm brief manhalas with heavy duty and the				
	Construct 1420mm x 1420mm brick manholes with heavy duty cast iron manhole cover and frame including excavations, backfilling, compaction				
	and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
CTI 4.3.5	Over 0m and up to 1.0m	No	1,00	R	R
CTI 4.3.6	Over 1.0m and up to 2.0m	No	1,00	R	R
CTI 4.3.7	Over 2m and up to 3m	No	1,00	R	R
			,		
CTI 4.3.8	Over 3m and up to 4m	No	1,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CONNECTION OF MAIN SEWER LINE TO BUILDINGS				
		Heavy duty (Class 34) uPVC sewer and drain pipes				
СТІ	4.3.9	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	200,00	R	R
CTI	4.3.10	110mm Pipes laid in and including trenches not exceeding 1m deep	m	100,00	R	R
		Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings				
CTI	4.3.11	110mm Bend	No	20,00	R	R
CTI	4.3.12	110mm Junction	No	20,00	R	R
CTI	4.3.13	110mm Access bend	No	20,00	R	R
CTI	4.3.14	110mm Access junction	No	20,00	R	R
CTI	4.3.15	110mm Rodding eye	No	20,00	R	R
		Class 34 uPVC pipes				
CTI	4.3.16	160mm Pipes laid in and including trenches(trench to be opened and banked at 1;3 grade allowing pipe to be exposed)	m	290,00	R	R
		Extra over items for uPVC fittings				
CTI	4.3.17	160 x 110 mm Diameter Y junction	No	20,00	R	R
CTI	4.3.18	160 x 160 mm Diameter Y junction	No	20,00	R	R
		Channel bends				
CTI	4.3.19	160mm Diameter 45 degree bend	No	20,00	R	R
CTI	4.3.20	160mm Diameter 90 degree bend	No	20,00	R	R
		Sockets				
CTI	4.3.21	160mm Diameter	No	20,00	R	R
		End caps				
CTI	4.3.22	160mm Diameter	No	20,00	R	R
		SUNDRIES				
CTI	4.3.23	Excavation in earth for pipe trenches, chambers, etc	m3	40,00	R	R
СТІ	4.3.24	Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the contractor	m3	40,00	R	R
CTI	4.3.25	Risk of collapse to sides of trenches	m2	130,00	R	R
CTI	4.3.26	Extra over backfilling to drain trenches, chambers, etc for Class B bedding cradle of compacted selected granular material	m3	23,00	R	R
СТІ	4.3.27	25Mpa unreinforced concrete encasing to horizontal pipes laid in trenches N.E 1m deep	m3	30,00	R	R
		WATER				
		WALEN				

ITEM	NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CTI 4	1.3.28	Keeping excavations free of water	Item	1,00	R		R	
		uPVC gulleys						
CTI 4	1.3.29	110mm Gulley not exceeding 750mm deep including trap, head, grating etc	No	37,00	R		R	
		Testing						
CTI 4	1.3.30	Testing drainage system	Item	1,00	R		R	
		Materials & Plant						
CTI 4	1.3.31	Provision for Sundry Materials & Plant	Prov	1,00	R	27 925,00	R	27 925,0
CTI 4	1.3.32	Allow for profit & attendance if required	%	,	R	27 925,00	R	•
		Provisional Sum						
	1.3.33	Sundry Sewer Reticulation Works	Sum	1,00	R	27 925,00		27 925,0
CTI 4	1.3.34	Allow for profit & attendance if required	%		R	27 925,00	R	
		CARRIED TO SECTION SUMMARY	,				R	

BILL	SECTION 4 SUMMARY - EXTERNAL WORKS	PAGE NO.	AMOUNT
1	Road Works	66	R
2	Drainage	68	R
3	Sewer Reticulation	71	R
	CARRIED TO SITE	SUMMARY	R

			CLUSTER 2				
			CTIA				
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
	SECTION 5						
	PROVISIONAL SUMS						
	BILL NO.1						
	PROVISIONAL SUMS FOR SUBCONTRACT WORKS						
	General						
	Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances						
	Provisional sums are for material and equipment supplied and installed complete by firms of specialists						
	General attendance on subcontractors						
	The item "attendance" which follows each provisional sum for subcontractors' work, shall be deemed to cover all the contractor's costs incurred in ensuring all contractual obligations for the works are met.						
	LATERAL SUPPORT, GROUND ANCHORING, PILING & UNDERPINNING, ETC						
CTI 5.1	Provide the sum of R485,000.00 for Lateral Support, Ground Anchoring, Piling & Underpinning, Etc by an approved sub-contractor	Sum	1,00	R 485 000,00	R 485 000		
CTI 5.2	Allow for profit & attendance if required	%		R 485 000,00	R		
	ROOF COVERINGS, CLADDINGS ETC						
CTI 5.3	Provide the sum of R2 913,000.00 for Roof Coverings, Claddings Etc by an approved sub-contractor	Sum	1,00	R 2 913 000,00	R 2 913 000		
CTI 5.4	Allow for profit & attendance if required	%		R 2 913 000,00	R		
CTI 5.5	Provide the sum of R2 913,000.00 for Structural Steelwork by an approved sub-contractor	Sum	1,00	R 2 913 000,00	R 2 913 000		
CTI 5.6	Allow for profit & attendance if required	%		R 2 913 000,00	R		
011 3.0	JOINERY & CABINETRY INSTALLATION	70		1 2 313 666,66			
CTI 5.7	Provide the sum of R485,000.00 for the joinery & cabinetry installation by an approved sub-contractor	Sum	1,00	R 485 000,00	R 485 000		
CTI 5.8	Allow for profit & attendance if required	%		R 485 000,00	R		

ITEN	NO N	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ROLLER SHUTTERS & HANGAR DOORS						
CTI	5.9	Provide the sum of R971,000.00 for Roller Shutters & Hangar Doors by an approved sub-contractor	Sum	1,00	R	971 000,00	R	971 000,00
CTI	5.10	Allow for profit & attendance if required	%		R	971 000,00	R	
		GENERAL GLAZING						
		GENERAL GLAZING						
CTI	5.11	Provide the sum of R485,000.00 for General Glazing by an approved sub- contractor	Sum	1,00	R	485 000,00	R	485 000,00
CTI	5.12	Allow for profit & attendance if required	%		R	485 000,00	R	
		ALUMINIUM FACADE CLADDING, SHOPFRONTS, WINDOWS AND DOORS						
СТІ	5.13	Provide the sum of R971,000.00 for aluminium façade cladding, shopfronts, window and door installation by an approved sub-contractor	Sum	1,00	R	971 000,00	R	971 000,00
CTI	5.14	Allow for profit & attendance if required	%		R	971 000,00	R	
		SIGNAGE						
СТІ	5.15	Provide the sum of R485,000.00 for corporate and directional signage by an approved subcontractor	Sum	1,00	R	485 000,00	R	485 000,00
CTI	5.16	Allow for profit & attendance if required	%		R	485 000,00	R	
		BLINDS, FURNITURE & FITTINGS						
СТІ	5.17	Provide the sum of R727,000.00 for blinds, furniture and fittings by an approved subcontractor	Sum	1,00	R	727 000,00	R	727 000,00
CTI	5.18	Allow for profit & attendance if required	%		R	727 000,00	R	
		TENANT TEMPODADY DELOCATION & DEINICTATEMENT						
		TENANT TEMPORARY RELOCATION & REINSTATEMENT						
CTI	5.19	Provide the sum of R 485,000.00 for tenant temporary relocation and reinstatement works by an approved subcontractor	Sum	1,00	R	485 000,00	R	485 000,00
СТІ	5.20	Allow for profit & attendance if required	%		R	485 000,00	R	
		ASBESTOS REMOVAL						
СТІ	5.21	Provide the sum of R485,000.00 for the Removal & Safe Disposal of Asbestos by an approved subcontractor	Sum	1,00	R	485 000,00	R	485 000,00
CTI	5.22	Allow for profit & attendance if required	%		R	485 000,00	R	
		GUTTERS & RAINWATER DISPOSAL SYSTEMS						
		GOTTERS & RAINWATER DISPOSAL STSTEINS						
CTI	5.23	Provide the sum of R971,000.00 for Gutters & Rainwater Disposal Systems by an approved subcontractor	Sum	1,00	R	971 000,00	R	971 000,00
СТІ	5.24	Allow for profit & attendance if required	%		R	971 000,00	R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
	ELECTRICAL, ELECTRONIC AND MECHANICAL INSTALLATIONS						
	GENERAL ELECTRICAL INSTALLATIONS						
CTI 5.25	Provide the sum of R2,913,000.0 for General Electical Installations by an approved subcontractor	Prov	1,00	R	2 913 000,00	R	2 913 000,0
CTI 5.26	Allow for profit & attendance if required	%		R	2 913 000,00	R	
	SUB - STATION INSTALLATIONS						
CTI 5.27	Provide the sum of R485,000.00 for Sub Station Installations by an approved subcontractor	Sum	1,00	R	485 000,00	R	485 000,0
CTI 5.28	Allow for profit & attendance if required	%		R	485 000,00	R	
	UPS INSTALLATIONS						
CTI 5.29	Provide the sum of R485,000.00 for UPS Installations by an approved subcontractor	Sum	1,00	R	485 000,00	R	485 000,
CTI 5.30	Allow for profit & attendance if required	%		R	485 000,00	R	
	GENERATOR INSTALLATION						
CTI 5.31	Provide the sum of R485,000.00 for the Generator Installation by an approved sub-contractor	Sum	1,00	R	485 000,00	R	485 000,
CTI 5.32	Allow for profit & attendance if required	%		R	485 000,00	R	
	FIRE DETECTION & FIRE STOPPING INSTALLATION						
CTI 5.33	Provide the sum of R727,000.00 for the Fire Detection & Fire Stopping Installation by an approved sub-contractor	Sum	1,00	R	727 000,00	R	727 000,
CTI 5.34	Allow for profit & attendance if required	%		R	727 000,00	R	
	ACCESS CONTROL						
CTI 5.35	Provide the sum of R242,000.00 for the Access Control System installation by an approved sub-contractor	Sum	1,00	R	242 000,00	R	242 000,
CTI 5.36	Allow for profit & attendance if required	%		R	242 000,00	R	
	CCTV INSTALLATION						
CTI 5.37	Provide the sum of R242,000.00 for CCTV installation by an approved sub- contractor	Sum	1,00	R	242 000,00	R	242 000,
CTI 5.38	Allow for profit & attendance if required	%		R	242 000,00	R	
	INTERNET AND TELECOMMUNICATION INSTALLATION						
CTI 5.39	Provide the sum of R485,000.00 for the internet and telecommunication installation by an approved subcontractor	Sum	1,00	R	485 000,00	R	485 000,
CTI 5.40	Allow for profit & attendance if required	%		R	485 000,00	R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	GENERAL MECHANICAL INSTALLATION				
CTI 5.41	Provide the sum of R2,913,000.00 for General Mechanical Installations by an approved subcontractor	Prov	1,00	R 2 913 000,00	R 2 913 000,00
CTI 5.42	Allow for profit & attendance if required	%		R 2 913 000,00	R
	FIRE PROTECTION INSTALLATIONS				
CTI 5.43	Provide the sum of R485,000.00 for Fire Protection Installations by an approved subcontractor	Sum	1,00	R 485 000,00	R 485 000,00
CTI 5.44	Allow for profit & attendance if required	%		R 485 000,00	R
	SPRINKLER INSTALLATIONS				
CTI 5.45	Provide the sum of R971,000.00 for Sprinkler Installations by an approved subcontractor	Sum	1,00	R 971 000,00	R 971 000,00
CTI 5.46	Allow for profit & attendance if required	%		R 971 000,00	R
	GAS SUPPRESSION INSTALLATIONS				
CTI 5.47	Provide the sum of R971,000.00 for Gas Suppression Installations by an approved subcontractor	Sum	1,00	R 971 000,00	R 971 000,00
CTI 5.48	Allow for profit & attendance if required	%		R 971 000,00	R
	SMOKE EXTRACTION INSTALLATIONS				
CTI 5.49	Provide the sum of R971,000.00 for Smoke Extraction Installations by an approved subcontractor	Sum	1,00	R 971 000,00	R 971 000,00
CTI 5.50	Allow for profit & attendance if required	%		R 971 000,00	R
	HVAC INSTALLATION				
CTI 5.51	Provide the sum of R2,913,000.00 for the HVAC installation by an approved sub-contractor	Sum	1,00	R 2 913 000,00	R 2 913 000,00
CTI 5.52	Allow for profit & attendance if required	%		R 2 913 000,00	R
	LANDSCAPING WORKS				
CTI 5.53	Provide the sum of R971,000.00 for Landscaping Works by an approved sub-contractor	Sum	1,00	R 971 000,00	R 971 000,00
CTI 5.54	Allow for profit & attendance if required	%		R 971 000,00	R
	SPECIALIST WORKS				
CTI 5.55	Provide the sum of R485,000.00 for Specialist Works by an approved sub-contractor	Prov	1,00	R 485 000,00	R 485 000,00
CTI 5.56	Allow for profit & attendance if required	%		R 485 000,00	R
	CARRIED TO SITE SUMMARY				R

				2				
			CTIA					
TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN			
	SECTION 6 WASTE DISPOSAL , REPURPOSING & RECYCLING							
	BILL NO.1							
	WASTE DISPOSAL PEDITIPOSING & PECYCLING							
	WASTE DISPOSAL , REPURPOSING & RECYCLING							
	GENERAL							
	All waste shall be disposed / recycled / repurposed by permitted disposal / recycling / repurposing facilities and safe disposal /recycling /repurposing certificates shall be provided for all waste removed from site							
	The contractor shall maintain and provide records and manifests of waste removed from the site and corresponding waybills and disposal, repurposing and recycling certificates issued by permitted waste facilities							
	The contractor shall provide copies of permits of disposal / recycling / repurposing facilities for client approval prior to transferring of any waste							
	Hazardous Waste							
	Provision is made for performing the required waste classifications and subsequent disposal of any hazardous waste streams encountered during construction works							
	Recycling / Repurposing Return							
	Provision is made for a monetary return to the client for items that are recycled or repurposed. The return is reflected in these bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities have provided a baseline estimate of quantities of materials to be recycled/repurposed and actual quantities will vary based on prevailing site conditions and requirements							
	GENERAL WASTE							
CTI 6.1	General building / building rubble waste to landfill	ton	270,00	R	R			
	RECYCLING / REPURPOSING RETURN							
CTI 6.2	Glass	Kg	890,00	(-R	(-R			
CTI 6.3	Plastics	Kg	890,00	(-R	(-R			
CTI 6.4	Steel	Kg	890,00	(-R	(-R			
CTI 6.5	Stainless Steel	Kg	890,00	(-R	(-R			
CTI 6.6	Copper	Kg	890,00	(-R	(-R			
CTI 6.7	Aluminium	Kg	890,00	(-R	(-R			
CTI 6.8	Brass	Kg	890,00	(-R	(-R			
CTI 6.9	Iron	Kg	890,00	(-R	(-R			
					-			

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HAZARDOUS WASTE				
		Provisional Sum				
СТІ	6.10	Hazardous Waste Classification & Disposal Costs	Sum	1,00	R 634 000,00	R 634 000,00
CTI	6.11	Allow for profit & attendance if required	%		R 634 000,00	R
		CARRIED TO SITE SUMMARY				R

	SITE SUMMARY - CTIA	PAGE NO.	AMOUNT
		TAGE NO.	74
	PRICE SUMMARY		
1	Preliminaries	6	R
2	Labour Schedule	9	R
3	Building Works	62	R
4	External Works	72	R
5	Provisional Sums	76	R
6	Waste Disposal, Repurposing & Recycling	78	R
	CARRIED TO CLUSTE	R SUMMARY	R

KIMBERLY AIRPORT - KIM

			CLUSTER 2 KIM				
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
	SECTION 1						
	BILL NO.1						
	PRELIMINARIES						
	PREAMBLES FOR TRADES						
	The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the Model Preambles The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles						
	SUPPLEMENTARY PREAMBLES Fixed Charge Items - In general the sum tendered for each fixed charge						
	item will be paid only after the obligations in respect of that item have, in the opinion of the employer/employers agent have been met. Proof of obligations having been met shall be provided to support payment						
	Time Related Items - The amount shall cover all the contractors time related obligations for the entire site irrespective of number of work packages being executed on the site. Payment shall be made for periods of construction works on site. Periods between work packages where there is no construction works will not attract time related charges unless otherwise approved by the employers agent.						
	Value Related Items - The sum tendered for each value related item will only be paid as a proportion of work completed to date on each certificate. The proportion of the amount paid shall be the same as the proportion of work complete to date which is cumulative cost to date divided by the contact sum						
	Provisional amounts included under value related items shall only be utilised on written instruction of the employers agent and will be paid at net cost plus agreed mark up						
	Specialised PPE is defined as PPE other than 'Standard PPE"						
	Standard PPE is defined as: Overalls/Uniforms, Reflector Jackets, Safety Boots, Gloves, Dust Masks, Goggles, Ear Plugs & Hard Hats all of which must be SABS/SANS compliant						
	FIXED CHARGE ITEMS						
(IM 1.1	General Insurance Requirement (Sureties, guarantees, bonds, workman's compensation etc)	Sum	1,00	R	R		
(IM 1.2	Contract works insurance	Sum	1,00	R	R		
	Public liability insurance	Sum	1,00	R	R		

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
			1.00				
KIM 1.4	Other fixed obligations	Sum	1,00	R		R	
	TIME RELATED ITEMS						
	Operation and Maintenance of Facilities on Site, for duration of						
	construction, except where otherwise stated						
KIM 1.5	Offices (Accommodates up to 5 staff x 1 off)	month	24,00	R		R	
KIM 1.6	Storage sheds (12m x 2.4m x 1 off - Includes Delivery & Removal)	month	24,00	R		R	
KIM 1.7	Ablution & Latrine facilities (5 x Male & 3 x Urinal & 3 x Female & 1 x	month	24,00	R		R	
	Paraplegic & 2 x Standalone Units)						
KIM 1.8	Electric Power & Lighting	month	24,00	R		R	
KIM 1.9	Water supplies, electric power and communications	month	24,00	R		R	
	Supervision						
	Supervisor/Foreman						
KIM 1.10	Site Supervision for the duration of the contract (x 1 Resource)	month	24,00	R		R	
	Safety Management						
KIM 1.11	Provision of full time Construction Site Safety Officer (x 1 Resource)	month	24,00	R		R	
KIM 1.12	Compliance with the Occupational Health and Safety Act (OHSA) and Regulations (including the Construction Regulations, 2014)	month	24,00	R		R	
KIM 1.13	Site Security	month	24,00	R		R	
KIM 1.14	Signage for the site	month	24,00	R		R	
KIM 1.15	Other time related obligations	month	24,00	R		R	
	VALUE RELATED ITEMS						
KIM 1.16	Contractual requirements	Sum	1,00	R		R	
KIM 1.17	Provision for Specialised PPE Requirements	Prov	1,00	R	61 894,88	D	61 894,88
KIM 1.17 KIM 1.18	Allow for profit & attendance if required	%	1,00	R	61 894,88		01 854,80
KIM 1.19	Provision for Location and Protection of Existing Underground Services	Prov	1.00	R	37 136,93	R	37 136,93
KIM 1.20	Allow for profit & attendance if required	%	1,00	R	37 136,93	R	
VINA 1 21	Dravisian for Compliance with Environmental requirements	Drov	1.00	D	27 126 02	D	27 126 02
KIM 1.21 KIM 1.22	Provision for Compliance with Environmental requirements Allow for profit & attendance if required	Prov %	1,00	R R	37 136,93 37 136,93		37 136,93
KIM 1.23	Provision for ACSA Training and Airports Permits (ACSA Issue)	Prov	1,00	R	123 789,76	R	123 789,76
KIM 1.24	Allow for profit & attendance if required	%	•	R	123 789,76		•
	Materials & Plant						
KINA 4 3E	Drawinian for Conduct Materials C. Dlant	Duni	1.00	-	20 722 60	2	20 722 60
KIM 1.25 KIM 1.26	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	38 723,60 38 723,60		38 723,60
	Provisional Sum						
1/10 - 1				_	20.727		00 ====
KIM 1.27 KIM 1.28	Sundry preliminary requirements Allow for profit & attendance if required	Prov %	1,00	R R	38 723,60 38 723,60		38 723,60

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARRIED TO SITE SUMMARY				R

				CLUSTER 2 KIM				
ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
T								
		SECTION 2						
		BILL NO.1						
		LABOUR SCHEDULE						
		GENERAL						
		labour rates will be utilised where 'dayworks' are deemed required as specified by the employers agent.						
		Daywork - The employer's Agent may schedule day works where appropriate for various classes of labour. The unit rates for labour shall cover overhead charges & profit, insurances, wage costs, salary costs, use of equipment & tools and transport & Allowances costs.						
		Operating Times Normal Hours: Regarded as between 06:00am and 18:00pm weekdays						
		After Hours: Regarded as between 06:00pm and 06:00am weekdays						
		After Hours: Regarded as between 06:00am and 23:59pm Saturdays		-				
		Sundays & Public Holidays: Regarded as Between 0:00am and 23:59pm on Sundays and Public Holidays						
		Additional Supervisor / Foreman (General Building)						
KIM	2.1	Normal Hours	Man Hours	400,00	R	R		
KIM 2	2.2	After Hours		120,00	R	R		
KIM 2	2.3	Sundays & Public Holidays		50,00	R	R		
		Additional Supervisor / Foreman (Civil Works)						
KIM	2.4	Normal Hours	Man Hours	200,00	R	R		
KIM 2	2.5	After Hours		120,00	R	R		
KIM	2.6	Sundays & Public Holidays		50,00	R	R		
		Handinaan						
KIM	2.7	Handyman Normal Hours	Man Hours	300,00	R	R		
KIM 2	2.8	After Hours		120,00	R	R		
KIM 2	2.9	Sundays & Public Holidays		50,00	R	R		
		Driek Lavor						
KIM 2	2.10	Brick Layer Normal Hours	Man Hours	200,00	R	R		
KIM 2	2.11	After Hours		120,00	R	R		
KIM 2	2.12	Sundays & Public Holidays		50,00	R	R		
		Corportor						
KIM 2	2.13	Carpenter Normal Hours	Man Hours	300,00	R	R		
KIM 2	2.14	After Hours		120,00	R	R		

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	2.15	Sundays & Public Holidays	Man Hours	50,00	R	R
			Hours			
KIM	2.16	Tiler Normal Hours	Man Hours	200,00	R	R
KIM	2.17	After Hours	Man	120,00	R	R
KIM	2.18	Sundays & Public Holidays	Man Hours	50,00	R	R
			110013			R -
KIM	2.19	Plasterer Normal Hours	Man	200,00	R	R
		Normal Hours	Hours	200,00	IV.	"
	2.20	After Hours	Man Hours	120,00	R	R
KIM	2.21	Sundays & Public Holidays	Man Hours	50,00	R	R
		Painter				
KIM	2.22	Normal Hours	Man Hours	300,00	R	R
KIM	2.23	After Hours	Man Hours	120,00	R	R
KIM	2.24	Sundays & Public Holidays	Man Hours	50,00	R	R
		Welder				
KIM	2.25	Normal Hours	Man Hours	300,00	R	R
KIM	2.26	After Hours		120,00	R	R
KIM	2.27	Sundays & Public Holidays	Man Hours	50,00	R	R
		Concerd Assistant				
KIM	2.28	General Assistant Normal Hours	Man Hours	1000,00	R	R
KIM	2.29	After Hours		120,00	R	R
KIM	2.30	Sundays & Public Holidays	Man Hours	50,00	R	R
		Shutterhand / Formwork Specialist Installer				
KIM	2.31	Normal Hours	Man	150,00	R	R
KIM	2.32	After Hours		120,00	R	R
KIM	2.33	Sundays & Public Holidays	Man	50,00	R	R
			Hours			
1/15	2.24	Waterproofing Technician / Specialist Installer	N.4 -	150.00		
	2.34	Normal Hours	Man Hours	150,00	R	R
KIM	2.35	After Hours	Man Hours	120,00	R	R
KIM	2.36	Sundays & Public Holidays	Man Hours	50,00	R	R
		Ceiling & Partitions Specialist Installer				
KIM	2.37	Normal Hours	Man Hours	150,00	R	R
KIM	2.38	After Hours	Man Hours	120,00	R	R

ITEM	I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	2.39	Sundays & Public Holidays	Man Hours	50,00	R	R
		Flooring Specialist Installer (Vinyl & Epoxy Floors)				
KIM		Normal Hours	Hours	150,00	R	R
KIM		After Hours	Hours	120,00	R	R
KIM	2.42	Sundays & Public Holidays	Man Hours	50,00	R	R
KIM	2.43	Flooring Specialist Installer (Carpets) Normal Hours		150,00	R	R
KIM	2.44	After Hours		120,00	R	R
KIM	2.45	Sundays & Public Holidays	Hours Man Hours	50,00	R	R
		Flooring Specialist Installer (Timber / Composite Floors)				
KIM		Normal Hours	Man Hours	150,00	R	R
KIM	2.47	After Hours		120,00	R	R
KIM	2.48	Sundays & Public Holidays		50,00	R	R
KIM	2.49	Plumber Normal Hours	Man	250,00	R	R
KIM		After Hours	Hours	120,00	R	R
KIM		Sundays & Public Holidays	Hours	40,00	R	R
KIIVI	2.31	Surradys & Fabric Horidays	Hours	40,00	T T	
		CARRIED TO SITE SUMMARY				R

			CLUSTER 2 KIM			
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
	SECTION 3					
	BUILDING WORKS					
	BILL NO.1					
	ALTERATIONS					
	PREAMBLES					
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)					
	SUPPLEMENTARY PREAMBLES					
	GENERAL					
	In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc to ensure the stability of all structures during alterations work.					
	Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephones and other services which may be encountered are not interfered with and notice shall be given to the Employer's Representative if any disconnection or alterations become necessary.					
	Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Employer's Representative, be effectively stopped off and any new connections that may be necessary made with the proper tees, junctions pieces, etc. to the satisfaction of the Employer's Representative.					
	The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any service.					
	MATERIALS FROM ALTERATIONS, ETC					
	Old materials to be carted away					
	Old materials from alterations, where described as to be "removed" as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site.					
	Old materials not te be re-used					
	None of old materials are to be used for new work except where specifically described as being "set aside for re-use". The clients agent will indicate materials that are to be 'set asisde for re-use' at the issuing of each work package					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Handing over materials				
	Where certain materials or articles from alterations are described as to be "handed over" to the Employer's Representative, such material or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contarctor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the client for the full replacement value thereof, which amount will be deducted from monies due to the Contractor. The clients agent will at issuing of each work				
	package indicate materials that are to be handed over				
	EXISTING BUILDINGS				
	The existing buildings will be in use and occupied during the progress of the contract and the contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance. Contractors are also to note that due to the buildings being occupied the repairs and renovations works will be requiered to be executed in a specific order as will be determined by the Employer' Representative.				
	SIZE PERTAINING TO EXISTING WORK				
	The Contractor is advised to check all dimensions affecting the existing buildings on the site and he will be held soley responsible for the correctness of sizes of all new work.				
	All sizes given in relation to the existing work are approximate				
	MAKING GOOD DAMAGED WORK				
	The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing				
	FORMING NEW OPENINGS OR ALTERING				
	Openings in existing walls				
	Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in situ concrete or prestressed concrete lintels including all reinforcement, formwork, turning pieces, etc, building up jamms or portion of openings as described with brickwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all around on both sides and into reveals as described.				
	BUILDING UP OPENINGS				
	Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described.				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		PAINTWORK				
		Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere.				
		TEMPORARY BARRIERS, SCREENS, ETC				
		Temporary barriers, screens, etc including removal on completion				
KIM	3.1.1	Temporary hoarding of galvanised diamond mesh covered with shade cloth 2.7m high and removal later	m	60,00	R	R
KIM	3.1.2	Extra over for galvanised mild steel double gate and frame1 511 x 2032mm high	No	2,00	R	R
KIM	3.1.3	Drywall barricade not exceding 2.4m high of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum plasterboard and finished with two coats interior quality PVA emulsion paint, including corners, ends, etc	m	90,00	R	R
KIM	3.1.4	Extra over preceding item for hollow core single door 813 x 2032mm high, including steel frame, two-lever mortice lock, primer and two coats paint	No	2,00	R	R
KIM	3.1.5	Hoarding between concrete floor and ceiling formed of suitable timber framing with 22mm thick shutter board	m2	30,00	R	R
KIM	3.1.6	Metal sheeting hoarding 2m high fixed to steel posts at equal centres including paint to external face of sheets and posts.	m2	30,00	R	R
KIM	3.1.7	Temporary 12mm shutter board protection lining to walls, floors and ceilings including removing after completion and making good to walls, floors and ceilings	m2	60,00	R	R
		REMOVAL OF EXISTING WORK				
		Breaking up and removing mass concrete including reinforcing and carting to approved disposal area within the airport.				
KIM	3.1.8	Stairs with landings, waist, treads, risers, ramps, surface beds, strip footing, reinforced concrete etc	m3	60,00	R	R
		Breaking down and removing existing concrete work including all steel reinforcing, steel corners bolts etc and carting to approved disposal area within the airport.				
KIM	3.1.9	Concrete Columns, beams and slabs not exceeding 3m high	m3	20,00	R	R
KIM	3.1.10	Manholes, bases, strip footings etc not exceeding 1.5m deep	m3	20,00	R	R
KIM	3.1.11	Surface beds not exceeding 100mm thick	m3	20,00	R	R
KIM	3.1.12	Surface beds exceeding 100mm thick and not exceeding 150mm thick	m3	20,00	R	R
		Breaking down and removing brickwork including all steel door frames, window frames etc and carting to approved disposal area within the airport.				
KIM	3.1.13	Half brick wall	m2	90,00	R	R
KIM	3.1.14	One brick wall	m2	90,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Taking up and removing vinyl floor coverings, tiles, carpets, etc				
KIM	3.1.15	Ceramic / Porcelain / Marble tiles to floor including preparing floor for new floor covering	m2	310,00	R	R
KIM	3.1.16	Vinyl / plastic / carpet floor covering including preparing floors for new floor coverings	m2	120,00	R	R
		Hacking up and removing off coverings to walls, columns, partitionwalls etc. including preparing surfaces for new finishes				
KIM	3.1.17	Tiles from walls, columns	m2	60,00	R	R
KIM	3.1.18	Wall paper covering from walls, columns etc.	m2	30,00	R	R
		Taking out / off and removing sundry metalwork				
KIM	3.1.19	Stainless steel / mild steel barrier not exceeding 150mm diameter including vertical supports and making good to concrete to recieve new finish	m	90,00	R	R
		Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)				
KIM	3.1.20	Timber single door and steel frame not exceeding 2,5m ²	No	20,00	R	R
KIM	3.1.21	Timber double door and steel frame exceeding 2,5m² and not exceeding 5m²	No	10,00	R	R
KIM	3.1.22	Timber double door and steel frame exceeding 5m ² and not exceeding 7.5m ²	No	10,00	R	R
KIM	3.1.23	Glazed aluminium/steel/timber window not exceeding 2,5m ²	No	20,00	R	R
KIM	3.1.24	Glazed aluminium/steel/timber window exceeding 2,5m² and not exceeding 5m²	No	10,00	R	R
KIM	3.1.25	Glazed aluminium/steel/timber window exceeding 5m² and not exceeding 7.5m²	No	10,00	R	R
		Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
KIM	3.1.26	Suspended ceilings, including suspension grid, hangers, cornices, etc not exceeding 3.0m high	m2	310,00	R	R
KIM	3.1.27	Drywall partitions not exceeding 3.0m high, including doors, glazed borrowed lights, etc	m	190,00	R	R
KIM	3.1.28	Toilet partitioning not exceeding 3.0 m high	m2	60,00	R	R
		Taking out and removing sundry joinery work, fittings, etc				
KIM	3.1.29	Skirtings - various widths	m	120,00	R	R
KIM	3.1.30	Timber sills - various widths	m	30,00	R	R
KIM	3.1.31	Timber wall mounted cupboard - Measured by surface area covered on the wall	m2	30,00	R	R
ΚIΜ	3.1.32	Timber floor mounted cupboard - Measured by surface area covered on	m2	30,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.1.33	Timber sink cupboard, including sink and disconnecting & terminating waste pipe - Measured by surface area covered on the floor	m2	20,00	R	R
KIM	3.1.34	Timber/stone counters	m2	30,00	R	R
		Taking out/off and removing sundry metalwork				
KIM	3.1.35	Steel pipe handrails from walls, including brackets, and making good plaster finish	m	30,00	R	R
		Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc				
KIM	3.1.36	Not exceeding 100mm thick Screed from floors	m2	310,00	R	R
KIM	3.1.37	Internal plaster from walls and columns not exceeding 3m high	m2	310,00	R	R
KIM	3.1.38	Internal plaster from ceilings and beams not exceding 3m high	m2	310,00	R	R
KIM	3.1.39	External plaster from walls, columns and beams not exceeding 3m high	m2	310,00	R	R
		POWER WASH ON EXISTING WALLS				
KIM	3.1.40	Power wash on existing walls (Internal and external walls) as per Employer Agent instruction	m2	310,00	R	R
		Taking down and removing				
KIM	3.1.41	Mesh fence with steel posts and droppers	m2	620,00	R	R
KIM	3.1.42	Steel palisade fence with steel posts and droppers	m2	620,00	R	R
KIM	3.1.43	Concrete palisade fence with concrete posts and droppers	m2	620,00	R	R
KIM	3.1.44	Security fence with 45 degree barbed wire overhang with posts and droppers	m2	620,00	R	R
KIM	3.1.45	Half brick boundary or yard wall	m2	150,00	R	R
KIM	3.1.46	One brick boundary or yard wall	m2	150,00	R	R
KIM	3.1.47	Clearvu Fence not exceeding 2,0m high with steel posts	m	150,00	R	R
		Lift and removing pre-cast concrete including bedding, etc				
KIM	3.1.48	60mm Interlocking paving	m2	570,00	R	R
KIM	3.1.49	80mm Interlocking paving	m2	570,00	R	R
KIM	3.1.50	50mm Cement or brick paving	m2	570,00	R	R
KIM	3.1.51	Fig.1 Kerbing	m	90,00	R	R
KIM	3.1.52	Fig.2 Kerbing	m	90,00	R	R
KIM	3.1.53	Fig.3 Kerbing	m	90,00	R	R
KIM	3.1.54	Fig.4 Kerbing	m	90,00	R	R
	3.1.55	Fig.5 Kerbing	m	90,00	R	R
	3.1.56	Fig. 6 Kerbing	m	90,00	R	R

KIND 3.1-57 Fig. 6 Kerbing - Mountable m 90,00 R R R	ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KMM 31.59 Fig.8 Kerbing m 90,00 R R R	KIM	3.1.57	Fig.6 Kerbing - Mountable	m	90,00	R	R
KIM 3.1.60 Fig. Bb Kerbing - Mountable	KIM	3.1.58	Fig.7 Kerbing	m	90,00	R	R
KMM 3.1.61 Fig.8.6 Kerbing - Mountable m 90,00 R R	KIM	3.1.59	Fig.8 Kerbing	m	90,00	R	R
KIM 3.1.62 Fig. 12 Kerbing m 90,00 R R	KIM	3.1.60	Fig.8b Kerbing - Mountable	m	90,00	R	R
KIM 3.1.63 Fig. 14 Kerbing	KIM	3.1.61	Fig.8c Kerbing - Mountable	m	90,00	R	R
KIM 3.1.63 Fig. 16 Kerbing m 90,00 R R	KIM	3.1.62	Fig.12 Kerbing	m	90,00	R	R
PREPARATORY WORK TO EXISTING SURFACES	KIM	3.1.63	Fig.14 Kerbing	m	90,00	R	R
KIM 3.1.65 Hacking faces of existing concrete columns, beams, etc to receive plaster m2 30,00 R R KIM 3.1.65 Making good defects in existing screeded floors with "an SABS approved self leveling screed" m2 30,00 R R MAKING GOOD OF FINISHES ETC Making good face brickwork Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond KIM 3.1.67 Ends of half brick walls m 30,00 R R KIM 3.1.69 Faces of walls where half brick cross walls removed m 20,00 R R KIM 3.1.70 Ceilings in patches m2 20,00 R R KIM 3.1.71 Ceilings in patches m2 20,00 R R KIM 3.1.72 Ceilings where half brick walls removed m 20,00 R R KIM 3.1.73 Ceilings where one brick walls removed m 20,00 R R KIM 3.1.74 Not exceeding 100mm Thick on floors in patches m2 20,00 R R KIM 3.1.75 Floors where one brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R KIM 3.1.75 Floors where one brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R KIM 3.1.77 Valls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R KIM 3.1.79 Floors where one brick walls removed m 20,00 R R KIM 3.1.70 Floors where one brick walls removed m 20,00 R R KIM 3.1.77 Valls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R KIM 3.1.79 Valls in patches m2 20,00 R R KIM 3.1.79 Valls in patches m2 20,00 R R	KIM	3.1.64	Fig.16 Kerbing	m	90,00	R	R
KIM 3.1.66 Making good defects in existing screeded floors with "an SABS approved self leveling screed" 30,00 R R			PREPARATORY WORK TO EXISTING SURFACES				
self leveling screed* MAKING GOOD OF FINISHES ETC Making good face brickwork Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond KIM 3.1.67 Ends of half brick walls KIM 3.1.68 Ends of one brick walls MIM 3.1.69 Faces of walls where half brick cross walls removed MAKING 3.1.70 Faces of walls where one brick cross walls removed MAKING 3.1.70 Faces of walls where one brick cross walls removed MAKING 3.1.71 Ceilings in patches MIM 3.1.72 Ceilings where half brick walls removed MAKING 3.1.73 Ceilings where one brick walls removed MAKING 3.1.74 Not exceeding 100mm Thick on floors in patches MAKING 3.1.75 Floors where half brick walls removed MAKING 3.1.76 Floors where half brick walls removed MAKING 3.1.77 Floors where half brick walls removed MAKING 3.1.75 Floors where half brick walls removed MAKING 3.1.76 Floors where one brick walls removed MAKING 3.1.77 Walls in patches MAKING 3.1.78 Concrete ceilings in patches	KIM	3.1.65	Hacking faces of existing concrete columns, beams, etc to receive plaster	m2	30,00	R	R
Making good face brickwork Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond KIM 3.1.67 Ends of half brick walls KIM 3.1.69 Faces of walls where half brick cross walls removed KIM 3.1.70 Faces of walls where one brick cross walls removed Making good gypsum plasterboard cellings and timber brandering KIM 3.1.71 Cellings in patches Making sood cement screeds KIM 3.1.72 Cellings where one brick walls removed Making good cement screeds KIM 3.1.75 Floors where half brick walls removed Making good cement screeds KIM 3.1.76 Floors where brick walls removed Making good cement screeds KIM 3.1.77 Floors where one brick walls removed Making good cement screeds KIM 3.1.76 Floors where balf brick walls removed Making good cement screeds KIM 3.1.77 Wot exceeding 100mm Thick on floors in patches Making good internal cement plaster KIM 3.1.77 Walls in patches Making good internal cement plaster KIM 3.1.77 Walls in patches Making good internal cement plaster	KIM	3.1.66		m2	30,00	R	R
Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond KIM 3.1.67 Ends of half brick walls Ends of half brick walls M 30,00 R R R KIM 3.1.69 Faces of walls where half brick cross walls removed M 20,00 R R R KIM 3.1.70 Faces of walls where one brick cross walls removed Making good gypsum plasterboard ceilings and timber brandering KIM 3.1.71 Ceilings in patches Making swhere half brick walls removed M 20,00 R R R KIM 3.1.72 Ceilings where one brick walls removed Making good cement screeds KIM 3.1.73 Ceilings where one brick walls removed Making good cement screeds KIM 3.1.74 Not exceeding 100mm Thick on floors in patches Making sood tement screeds KIM 3.1.75 Floors where half brick walls removed M 20,00 R R R KIM 3.1.76 Floors where one brick walls removed Making good internal cement plaster KIM 3.1.77 Walls in patches Making good internal cement plaster KIM 3.1.77 Walls in patches M 20,00 R R R KIM 3.1.77 Walls in patches M 20,00 R R R KIM 3.1.77 Walls in patches M 20,00 R R KIM 3.1.77 Walls in patches M 20,00 R R KIM 3.1.77 Walls in patches			MAKING GOOD OF FINISHES ETC				
Instretcher bond			Making good face brickwork				
KIM 3.1.68 Ends of one brick walls							
KIM 3.1.69 Faces of walls where half brick cross walls removed m 20,00 R R R KIM 3.1.70 Faces of walls where one brick cross walls removed m 20,00 R R R Making good gypsum plasterboard ceilings and timber brandering m 20,00 R R R KIM 3.1.71 Ceilings in patches m 20,00 R R R KIM 3.1.72 Ceilings where half brick walls removed m 20,00 R R R KIM 3.1.73 Ceilings where one brick walls removed m 20,00 R R KIM 3.1.74 Not exceeding 100mm Thick on floors in patches m 20,00 R R KIM 3.1.75 Floors where half brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R KIM 3.1.77 Valls in patches m 20,00 R R KIM 3.1.78 Concrete ceilings in patches m 20,00 R R KIM 3.1.77 Walls in patches m 20,00 R R KIM 3.1.78 Concrete ceilings in patches m 20,00 R R	KIM	3.1.67	Ends of half brick walls	m	30,00	R	R
KIM 3.1.70 Faces of walls where one brick cross walls removed m 20,00 R R Making good gypsum plasterboard ceilings and timber brandering KIM 3.1.71 Ceilings in patches m2 20,00 R R KIM 3.1.72 Ceilings where half brick walls removed m 20,00 R R KIM 3.1.73 Ceilings where one brick walls removed m 20,00 R R Making good cement screeds KIM 3.1.74 Not exceeding 100mm Thick on floors in patches m2 30,00 R R KIM 3.1.75 Floors where half brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R	KIM	3.1.68	Ends of one brick walls	m	30,00	R	R
Making good gypsum plasterboard ceilings and timber brandering KIM 3.1.71 Ceilings in patches m2 20,00 R R R KIM 3.1.72 Ceilings where half brick walls removed m 20,00 R R R KIM 3.1.73 Ceilings where one brick walls removed m 20,00 R R R Making good cement screeds KIM 3.1.74 Not exceeding 100mm Thick on floors in patches m2 30,00 R R KIM 3.1.75 Floors where half brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches	KIM	3.1.69	Faces of walls where half brick cross walls removed	m	20,00	R	R
KIM 3.1.71 Ceilings in patches	KIM	3.1.70	Faces of walls where one brick cross walls removed	m	20,00	R	R
KIM 3.1.72 Ceilings where half brick walls removed m 20,00 R R R KIM 3.1.73 Ceilings where one brick walls removed m 20,00 R R R Making good cement screeds KIM 3.1.74 Not exceeding 100mm Thick on floors in patches m2 30,00 R R KIM 3.1.75 Floors where half brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R			Making good gypsum plasterboard ceilings and timber brandering				
KIM 3.1.72 Ceilings where half brick walls removed m 20,00 R R R KIM 3.1.73 Ceilings where one brick walls removed m 20,00 R R R Making good cement screeds KIM 3.1.74 Not exceeding 100mm Thick on floors in patches m2 30,00 R R R KIM 3.1.75 Floors where half brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R	KIM	3.1.71	Ceilings in patches	m2	20.00	R	R
KIM 3.1.73 Ceilings where one brick walls removed m 20,00 R R Making good cement screeds KIM 3.1.74 Not exceeding 100mm Thick on floors in patches m2 30,00 R R KIM 3.1.75 Floors where half brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R					,		
Making good cement screeds KIM 3.1.74 Not exceeding 100mm Thick on floors in patches m2 30,00 R R KIM 3.1.75 Floors where half brick walls removed m 20,00 R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R Making good internal cement plaster KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R							
KIM 3.1.74 Not exceeding 100mm Thick on floors in patches m2 30,00 R R KIM 3.1.75 Floors where half brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R Making good internal cement plaster KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R	KIIVI	5.1.75		111	20,00	TV.	IN .
KIM 3.1.75 Floors where half brick walls removed m 20,00 R R KIM 3.1.76 Floors where one brick walls removed m 20,00 R R Making good internal cement plaster KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R			Making good cement screeds				
KIM 3.1.76 Floors where one brick walls removed m 20,00 R R Making good internal cement plaster KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R	KIM	3.1.74	Not exceeding 100mm Thick on floors in patches	m2	30,00	R	R
Making good internal cement plaster KIM 3.1.77 Walls in patches m2 20,00 R R KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R	KIM	3.1.75	Floors where half brick walls removed	m	20,00	R	R
KIM 3.1.77 Walls in patches m2 20,00 R R R	KIM	3.1.76	Floors where one brick walls removed	m	20,00	R	R
KIM 3.1.78 Concrete ceilings in patches m2 20,00 R R			Making good internal cement plaster				
	KIM	3.1.77	Walls in patches	m2	20,00	R	R
KIM 3.1.79 Walls where half brick walls removed m 20.00 R R	KIM	3.1.78	Concrete ceilings in patches	m2	20,00	R	R
	KIM	3.1.79	Walls where half brick walls removed	m	20,00	R	R

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
1/10.4	3.1.80	Walls where one brick walls removed		30.00	D			
KIIVI	3.1.80	walls where one brick walls removed	m	20,00	R		R	
KIM	3.1.81	Concrete ceilings where half brick walls removed	m	20,00	R		R	
KIM	3.1.82	Concrete ceilings where one brick walls removed	m	20,00	R		R	
		OPENINGS THROUGH EXISTING WALLS ETC						
		Breaking out for and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish and making good.						
KIM	3.1.83	Opening through half brick wall	m2	35,00	R		R	
KIM	3.1.84	Opening through one brick wall	m2	35,00	R		R	
		Materials & Plant						
KIM	3.1.85	Provision for Sundry Materials & Plant	Prov	1,00	R	38 925,00	R	38 925,00
	3.1.86	Allow for profit & attendance if required	%	1,00	R	38 925,00		30 323,00
		Provisional Sum						
1/15.4	2.4.07			4.00		20.025.00		22.025.0
	3.1.87 3.1.88	Provision for sundry Alterations Works Allow for profit & attendance if required	Sum %	1,00	R R	38 925,00 38 925,00		38 925,0
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.2				
	EARTHWORKS				
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done.				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Conting away of exceptated material				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
	Filling				
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
	SITE CLEARANCE ETC				
	Site clearance				
KIM 3.2.1	Stripping average 300mm thick layer of top soil and stockpile on site	m2	500,00	R	R
	EXCAVATION, RISK OF COLLAPSE, FILLING, ETC				
	Excavation in earth not exceeding 2m deep including carting to a stockpile				
KIM 3.2.2	To trenches	m3	120,00	R	R
KIM 3.2.3	To holes	m3	10,00	R	R
KIM 3.2.4	Reduced levels under floors	m3	20,00	R	R
	Excavation in earth exceeding 2m deep but ne. 4m including carting to a stockpile				
KIM 3.2.5	To trenches	m3	60,00	R	R
KIM 3.2.6	To holes	m3	10,00	R	R
KIM 3.2.7	Reduced levels under floors	m3	20,00	R	R
	EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER		,		
	Extra over trench and hole excavations in earth for excavation in				
KIM 3.2.8	EO: Soft rock	m3	10,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.2.9	EO: Hard rock	m3	10,00	R	R
		Extra over all excavations for carting away				
KIM	3.2.10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	120,00	R	R
		Risk of collapse to sides of excavation n.e 2m deep				
KIM	3.2.11	To trenches	m2	110,00	R	R
KIM	3.2.12	To holes	m2	20,00	R	R
		Risk of collapse to sides of excavation exceeding 2m but n.e 3.5m deep				
KIM	3.2.13	To trenches	m2	110,00	R	R
KIM	3.2.14	To holes	m2	40,00	R	R
		Keeping excavations free of water				
KIM	3.2.15	Keeping excavations free of water	Item	1,00	R	R
		FILLING ETC				
		Earth filling obtained from excavations and/or prescribed stock on site compacted to 93 % Mod AASHTO density piles				
KIM	3.2.16	Under foundations, floors, steps, pavings, etc	m3	50,00	R	R
		Earth filling supplied (G5) by contractor compacted to 93% Mod AASHTO density				
KIM	3.2.17	Under floors, steps, paving, foundations, manholes etc	m3	94,00	R	R
		Compaction of surfaces				
KIM	3.2.18	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	250,00	R	R
		Prescribed density tests on filling				
KIM	3.2.19	"Modified AASHTO Density" test	No	1,00	R	R
KIM	3.2.20	"Field Density" test, including "Optimum Moisture Content" (four readings per test)	No	1,00	R	R
		SOIL POISONING				
		Soil insecticide				
KIM	3.2.21	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	120,00	R	R
KIM	3.2.22	To bottoms and sides of trenches etc	m2	120,00	R	R
		Materials & Plant				
	3.2.23	Provision for Sundry Materials & Plant	Prov	1,00	R 7 775,00	
	3.2.24	Allow for profit & attendance if required	%	1,00	R 7 775,00	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Provisional Sum				
KIM	3.2.25 3.2.26	Sundry Earthworks	Sum	1,00	R 7 775,00	R 7 775,00
KIM	3.2.26	Allow for profit & attendance if required	%		R 7 775,00 R 7 775,00	R
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.3				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	222422				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Cost of tests				
	The costs of making, storing and testing of concrete test cubes as required				
	under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the employers agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. PRICES FOR CONCRETE ARE TO INCLUDE FOR ALL TESTS AND CERTIFICATES				
	Formwork				
	Descriptions of formwork shall be deemed to include use and waste only				
	(except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before reuse The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
	Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"In order to accommodate the custom in some regions to give formwork to sides of beams, isolated beams, etc separately from formwork to the soffits thereof, the items in respect of formwork to beams, isolated beams, etc				
	are given under the headings of "formwork to sides", "formwork to soffits" and "formwork to sides and soffits" UNREINFORCED CONCRETE 15 Mpa / 20mm mass concrete				
KIM 3.3.1	To strip footings, surface beds, blinding, paving, platforms, steps, bases,	m3	20,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		20 Mpa/20mm vibrated reinforced concrete				
KIM	3.3.2	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	20,00	R	R
KIM	3.3.3	To columns	m3	10,00	R	R
KIM	3.3.4	To slabs	m3	10,00	R	R
KIM	3.3.5	To beams	m3	10,00	R	R
KIM	3.3.6	Walls	m3	10,00	R	R
		25 Mpa/20mm vibrated reinforced concrete				
KIM	3.3.7	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	20,00	R	R
KIM	3.3.8	To columns	m3	10,00	R	R
KIM	3.3.9	To slabs	m3	10,00	R	R
KIM	3.3.10	To beams	m3	10,00	R	R
KIM	3.3.11	Walls	m3	10,00	R	R
		30MPa/20mm vibrated reinforced concrete				
KIM	3.3.12	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	20,00	R	R
KIM	3.3.13	To columns	m3	10,00	R	R
KIM	3.3.14	To slabs	m3	10,00	R	R
KIM	3.3.15	To beams	m3	10,00	R	R
KIM	3.3.16	Walls	m3	10,00	R	R
		35 Mpa/20mm vibrated reinforced concrete				
KIM	3.3.17	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	10,00	R	R
KIM	3.3.18	To columns	m3	3,00	R	R
KIM	3.3.19	To slabs	m3	3,00	R	R
KIM	3.3.20	To beams	m3	3,00	R	R
KIM	3.3.21	Walls	m3	3,00	R	R
		40 Mpa/20mm vibrated reinforced concrete				
KIM	3.3.22	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	3,00	R	R
KIM	3.3.23	To columns	m3	1,00	R	R
KIM	3.3.24	To slabs	m3	1,00	R	R
KIM	3.3.25	To beams	m3	1,00	R	R
KIM	3.3.26	Walls	m3	1,00	R	R

ITE	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		TEST CUBES				
KIM	3.3.27	Making and testing 150 x 150 x 150mm concrete strength test cube, testing and providing test results	No	10,00	R	R
		CONCRETE SUNDRIES				
		Finishing top surfaces of concrete smooth with a wood float				
KIM	3.3.28	Surface beds, slabs, beams, walls, paving etc	m2	120,00	R	R
		Finishing top surfaces of concrete smooth with a steel trowel				
1/18.4	2 2 20			122.00		
KIM	3.3.29	Surface beds, slabs,beams, walls, paving etc	m2	120,00	R	R
		Finishing top surfaces of concrete smooth with a power float				
KIM	3.3.30	Surface beds, slabs,beams, walls, paving etc	m2	120,00	R	R
		Scabble existing concrete surfaces, wire brush corroded rebar and apply "Prostruct 616" or similar approved wet to dry concrete adhesive				
KIM	3.3.31	Side of existing concrete	m2	60,00	R	R
		Finishing top surfaces of concrete with and including a nonslip brushed concrete finish including wave-like lines parallel				
KIM	3.3.32	To falls	m2	60,00	R	R
		35MPa non-shrink grout				
KIM	3.3.33	Bedding approximately 30mm thick under 300 x 300mm base plate, including chamfered edges all round	m3	1,00	R	R
		Core through 250mm thick Reinforced concrete walls, slab, etc. with a diamond saw or other mechanical means to form including grouting with "Epidermix 395" liquid grouting compound				
KIM	3.3.34	40mm Diameter opening	No	3,00	R	R
KIM	3.3.35	50mm Diameter opening	No	3,00	R	R
KIM	3.3.36	110mm Diameter opening	No	3,00	R	R
KIM	3.3.37	200mm Diameter opening	No	3,00	R	R
				,		
	3.3.38	250mm Diameter opening	No	3,00	R	R
KIM	3.3.39	350mm Diameter opening	No	1,00	R	R
KIM	3.3.40	450mm Diameter opening	No	1,00	R	R
		Rough formwork to sides				
KIM	3.3.41	Edges , risers, ends and reveals not exceeding 300 mm high	m	120,00	R	R
KIM	3.3.42	To ground beams	m2	60,00	R	R
		Smooth formwork to sides including supports etc.				
KIIV	3.3.43	To beams	m2	50,00	R	R
KIIVI	5.5.15	10 200.113	1112	30,00	111	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.3.44	To columns	m2	50,00	R	R
KIM	3.3.45	To pits	m2	50,00	R	R
				,		
KIM	3.3.46	To ramps	m2	50,00	R	R
KIM	3.3.47	To walls	m2	50,00	R	R
		Smooth formwork to soffits				
KIM	3.3.48	Beams propped up exceeding 3,5m and not exceeding 5m high	m2	60,00	R	R
KIM	3.3.49	Slab propped up exceeding 3,5m and not exceeding 5m high	m2	130,00	R	R
		Formwork to sloping top surfaces (pitch exceeding 35 degrees)				
KIM	3.3.50	Concrete humps/bunding, etc not exceeding 300mm wide	m	20,00	R	R
				-,		
		ISOLATION JOINTS ETC				
		Joint sealants				
		Expansion joints with softboard between vertical concrete surfaces				
KIM	3.3.51	Silicone sealing compound in 10 - 50 mm wide joints between units including backing strips, bond breaker, primer etc	m	40,00	R	R
KIM	3.3.52	Polysulphide sealing compound in 10 - 50 mm wide joints between units including backing strips, bond breaker, primer etc	m	40,00	R	R
		Saw cut joints				
KIM	3.3.53	50 x 3mm Saw cut joints in top of concrete reamed out to 8mm including 10mm diameter backing cord and 8mm wide x 13mm deep "Dow Corning 813C" silicone sealant or equal approved	m	40,00	R	R
		REINFORCEMENT (PROVISIONAL)				
		Mild tensile steel reinforcement to structural concrete work				
KIM	3.3.54	25mm Diameter bars	ton	1,00	R	R
KIM	3.3.55	20mm Diameter bars	ton	1,00	R	R
KIM	3.3.56	16mm Diameter bars	ton	1,00	R	R
KIM	3.3.57	12mm Diameter bars	ton	1,00	R	R
KIM	3.3.58	10mm Diameter bars	ton	1,00	R	R
KIM	3.3.59	8mm Diameter bars	ton	1,00	R	R
		High tensile steel reinforcement to structural concrete work				
KIM	3.3.60	25mm Diameter bars	ton	1,00	R	R
	3.3.61			,		R
		20mm Diameter bars	ton	1,00	R	
KIM	3.3.62	16mm Diameter bars	ton	1,00	R	R
KIM	3.3.63	12mm Diameter bars	ton	1,00	R	R
KIIVI						

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KIM 3.3.72 Allow for profit & attendance if required % R 31 150,00 R	ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
Min 3.86 Type 100 fabric reinforcement in concrete surface beds, concrete slabs, m2 30,00 R R	KIM	3.3.65	8mm Diameter bars	ton	1,00	R		R	
Min 3.86 Type 100 fabric reinforcement in concrete surface beds, concrete slabs, m2 30,00 R R			Fabric reinforcement						
Walls, pre-bent cages etc	KIM	3.3.66	Type 100 fabric reinforcement in concrete surface beds, concrete slabs,	m2	30,00	R		R	
Walls, pre-bent cages etc	KIM	3.3.67		m2	30,00	R		R	
Walls, pre-bent cages etc	KIM	3.3.68		m2	30,00	R		R	
Walls, pre-bent cages etc	KIM	3.3.69		m2	30,00	R		R	
KIM 3.3.71 Provision for Sundry Materials & Plant Prov 1,00 R 31 150,00 R 31 150,00 R R R R R R R R R	KIM	3.3.70		m2	30,00	R		R	
KIM 3.3.72 Allow for profit & attendance if required % R 31 150,00 R			Materials & Plant						
KIM 3.3.72 Allow for profit & attendance if required % R 31 150,00 R	KIM	3.3.71	Provision for Sundry Materials & Plant	Prov	1,00	R	31 150,00	R	31 150,00
KIM 3.3.73 Sundry Concrete Formwork & Reinforcement Works Sum 1,00 R 31 150,00 R				%		R			•
KIM 3.3.73 Sundry Concrete Formwork & Reinforcement Works KIM 3.3.74 Allow for profit & attendance if required KIM 3.3.75 Sundry Concrete Formwork & Reinforcement Works KIM 3.3.76 No. 1,00 R 31 150,00 R R 31 150,00 R R 31 150,00 R									
KIM 3.3.74 Allow for profit & attendance if required	KINA	2 2 72		Cum	1.00	D	21 150 00	D	21 150 00
					1,00				31 130,00
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ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.4				
		MASONRY				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		BRICKWORK				
		Sizes in descriptions				
		Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
		Hollow walls				
		Descriptions of hollow walls shall be deemed to include leaving every fifth				
		perpend of the bottom course of the external skin open as a weep hole				
		Face bricks				
		Bricks shall be ordered timeously to obtain uniformity in size and colour				
		Pointing				
		Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
		BRICKWORK				
		Driebused of NEV classical (44 MD) are reinal consequences that the				
		Brickwork of NFX clay bricks (14 MPa nominal compressive strength) in class II mortar in stretcher bond				
1/18 4	2.4.4			2.00		
KIM	3.4.1	Piers	m3	3,00	R	R
KIM	3.4.2	Half brick walls	m2	120,00	R	R
KIM	3.4.3	One brick walls	m2	190,00	R	R
KIM	3.4.4	Cavity walls - Made up of Two half brick skins	m2	60,00	R	R
KIM	3.4.5	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	60,00	R	R
KIM	3.4.6	280mm Hollow walls of two half brick skins circular on plan with cavities filled in with and including 25MPa/20mm concrete (elsewhere)	m2	50,00	R	R
KIM	3.4.7	Cutting toothings and bonding new brickwork to existing	m	20,00	R	R
		Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond				

TEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
ΚIΜ	3.4.8	Piers	m3	3,00	R	R
KIM	3.4.9	Half brick walls	m2	310,00	R	R
KIM	3.4.10	One brick walls	m2	370,00	R	R
KIM	3.4.11	Cavity walls - Made up of two half brick skins	m2	170,00	R	R
KIM	3.4.12	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	150,00	R	R
KIM	3.4.13	280mm Hollow walls of two half brick skins circular on plan with cavities filled in with and including 25MPa/20mm concrete	m2	150,00	R	R
KIM	3.4.14	Cutting toothings and bonding new brickwork to existing	m	80,00	R	R
		FACE BRICKWORK				
		Provide the prime cost of R 9 600.00 per thousand face bricks delivered to site pointed with flush horizontal and vertical joints				
KIM	3.4.15	Extra over brickwork for face brickwork in foundation walls, ramp, etc	m2	50,00	R	R
KIM	3.4.16	Extra over brickwork for face brickwork	m2	90,00	R	R
KIM	3.4.17	Half brick face brick walls in class II mortar pointed on both sides	m2	70,00	R	R
KIM	3.4.18	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	10,00	R	R
KIM	3.4.19	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm external diameter	No	10,00	R	R
		Steel bar reinforcement				
KIM	3.4.20	8mm Diameter mild steel bars built in horizontally	ton	1,00	R	R
		Prestressed precast lintels				
KIM	3.4.21	110 x 75mm Lintels in lengths not exceeding 3m	m	60,00	R	R
KIM	3.4.22	110 x 75mm Lintels exceeding 3,0m but not exceeding 4,5m	m	40,00	R	R
		Fabric Reinforcement				
KIM	3.4.23	75mm Galvanised brickforce suitable for half brick walls	m	370,00	R	R
KIM	3.4.24	150mm Galvanised brickforce suitable for one brick walls	m	370,00	R	R
		Galvanised hoop iron cramps, ties, etc				
KIM	3.4.25	30 x 1,6mm Roof tie 1500mm long with one end fixed to timber and other end built into brickwork	No	20,00	R	R
		Bagging of 1:3 cement and sand mixture				
KIM	3.4.26	On brick walls	m2	70,00	R	R

KIM 3.4.28 Allow for profit & attendance if required % R 31 150,00 R Provisional Sum	DUNT
KIM 3.4.28 Allow for profit & attendance if required % R 31 150,00 R Provisional Sum Sum 1,00 R 31 150,00 R	
KIM 3.4.28 Allow for profit & attendance if required % R 31 150,00 R Provisional Sum Sum 1,00 R 31 150,00 R	31 150,00
KIM 3.4.29 Sundry Masonry Works Sum 1,00 R 31 150,00 R	
KIM 34.29 Sundry Masonry Works Sum 1,00 R 31 150,00 R R R 31 150,00 R R R 31 150,00 R R R R R R R R R R R R R R R R R R	
KIM 3.4.30 Allow for profit & attendance if required % R 31 150,00 R	31 150,00
CARRIED TO SECTION SUMMARY R	

ITEM	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3 BUILDING WORKS				
		BILL NO.5				
		WATERPROOFING				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		Waterproofing				
		Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
		DAMPPROOFING OF WALLS AND FLOORS				
		One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course				
KIM	3.5.1	In walls	m2	120,00	R	R
		One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
KIM	3.5.2	Under surface beds, etc	m2	370,00	R	R
		Three coats paint sealer "plascon wallseal" or equal approved without membrane				
KIM	3.5.3	On parapet walls	m2	120,00	R	R
		Two coats "Brixeal" or equal approved bitumen emulsion waterproof coating				
KIM	3.5.4	On walls JOINT SEALANTS ETC	m2	120,00	R	R
		Silicone sealing compound including backing cord, bond breaker, primer, etc				
KIM	3.5.5	In joints between window or door frames and concrete or brickwork	m	20,00	R	R
		WATERPROOFING TO ROOFS ETC				
		TORCH-ON WATERPROOFING				
		4mm Thick "Derbigum SP4" or similar approved waterproofing membrane including laps, turn-ups, turndowns, etc and preparing and priming concrete or screeded surfaces laid in accordance with the manufacturers				
		instruction				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.5.7	On turn-ups and turn-downs exceeding 300mm girth	m2	10,00	R	R
KIM	3.5.8	On sloping roofs	m2	250,00	R	R
KIM	3.5.9	On tops and sides of inverted beams	m2	50,00	R	R
KIM	3.5.10	On bottoms and sides of floor ducts, channels, etc	m2	50,00	R	R
KIM	3.5.11	On bottoms and sides of box gutters	m2	50,00	R	R
KIM	3.5.12	On bottoms and sides of plant boxes	m2	20,00	R	R
KIM	3.5.13	Sealing edges to brickwork or concrete	m	20,00	R	R
KIM	3.5.14	Sealing edges to brickwork or concrete including trowelled mastic bead	m	20,00	R	R
KIM	3.5.15	Additional membrane 300mm girth at internal and external angles	m	20,00	R	R
KIM	3.5.16	Dressing and sealing around pipe not exceeding 200mm external diameter, including additional membrane, gussets, collars, etc	No	10,00	R	R
KIM	3.5.17	On internal surfaces of 300 x 300 x 300mm deep sump, catchpit, etc	No	6,00	R	R
KIM	3.5.18	On concrete flat roofs including all turn-ups and turndowns and sealing edges where required.	m2	128,00	R	R
		PROTECTIVE STONE DRESSING				
		19mm Crushed stone dressing evenly spread with larger stones around outlets				
KIM	3.5.19	25mm Thick on waterproofing to flat roofs	m2	120,00	R	R
		PROTECTIVE ROOFING PAINT				
		Two coats "Silvakote" or similar approved bituminous aluminium paint				
KIM	3.5.20	On waterproofing to roofs	m2	120,00	R	R
KIM	3.5.21	On inside of existing box gutters	m2	120,00	R	R
		PROTECTIVE ROOFING SHEETING				
		Type 40 bituminous fibreglass felt laid loose				
KIM	3.5.22	On waterproofing to roofs	m2	40,00	R	R
		WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC				
		Silicone sealing compound including backing cord, bond breaker, primer, etc				
KIM	3.5.23	6 x 10mm In saw cut joints in floors	m	20,00	R	R
KIM	3.5.24	6 x 10mm In expansion joints in tiled walls etc	m	20,00	R	R
KIM	3.5.25	10 x 15mm In expansion joints in tiled floors etc	m	20,00	R	R
KIM	3.5.26	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	20,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KIM	3.5.27	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	20,00	R		R	
		Mastic sealing compound including backing cord, bond breaker, primer, etc						
KIM	3.5.28	6 x 10mm In saw cut joints in floors	m	20,00	R		R	
KIM	3.5.29	6 x 10mm In expansion joints in tiled walls etc	m	20,00	R		R	
KIM	3.5.30	10 x 15mm In expansion joints in tiled floors etc	m	20,00	R		R	
KIM	3.5.31	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	20,00	R		R	
KIM	3.5.32	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	20,00	R		R	
		Materials & Plant						
	3.5.33 3.5.34	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	15 575,00 15 575,00		15 575,0
		Provisional Sum						
	3.5.35 3.5.36	Sundry Waterproofing Works Allow for profit & attendance if required	Sum %	1,00	R R	15 575,00 15 575,00		15 575,0
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.6				
	CARPENTRY & JOINERY				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	<u>Description</u>				
	The term "planted on" shall mean the countersunk screwing of one timber member to another with the heads of screws sunk and pelleted.				
	The term "plugged" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted				
	Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing				
	Descriptions of floors, ceilings, joinery, etc shall be deemed to include for all square cutting				
	Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.				
	Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc				
	DOORS, ETC				
	Semi-solid flush panel doors with commercial veneer both sides suitable for painting and hung to steel, aluminium, timber frames				
KIM 3.6.1	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	20,00	R	R
KIM 3.6.2	Provide the prime cost of R 3 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	20,00	R	R
	40mm Thick semi-solid flush panel doors with sapele hardwood veneer both sides suitable for varnish				
KIM 3.6.3	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	20,00	R	R
KIM 3.6.4	Provide the prime cost of R 3 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	20,00	R	R
	44mm Thick solid door suitable for varnish or painting and hung to steel, aluminium or timber frames				
KIM 3.6.5	Provide the prime cost of R 3000.00 per door leaf & hinges for single door openings	No	30,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.6.6	Provide the prime cost of R 6 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	30,00	R	R
		"Bitcon Industries" or similar approved Class A 1 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames				
KIM	3.6.7	Provide the prime cost of R 5000.00 for Class A fire door for single door opening including single rebated pressed steel frame for 115mm brick wall, hinges and preparing frame for door closer and lock	No	10,00	R	R
KIM	3.6.8	Provide the prime cost of R 8 500.00 for Class A fire double door for double door opening including double rebated pressed steel frame for 230mm brick wall, hinges and preparing frame for door closer and lock	No	10,00	R	R
		"Bitcon Industries" or similar approved Class B 2 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames				
KIM	3.6.9	Provide the prime cost of R 6 500.00 for Class B fire door for single door opening including single rebated pressed steel frame for 115mm brick wall, hinges and preparing frame for door closer and lock	No	25,00	R	R
KIM	3.6.10	Provide the prime cost of R 12 500.00 for Class B fire double door for double door opening including double rebated pressed steel frame for 230mm brick wall, hinges and preparing frame for door closer and lock	No	15,00	R	R
		Materials & Plant				
KIM	3.6.11	Provision for Sundry Materials & Plant	Prov	1,00	R 31 150,00	R 31 150,00
KIM	3.6.12	Allow for profit & attendance if required Provisional Sum	%		R 31 150,000	R
	3.6.13 3.6.14	Sundry Carpentry & Joinery Works Allow for profit & attendance if required	Sum %	1,00	R 31 150,00	
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.7				
	CEILINGS, PARTITIONS & ACCESS FLOORING				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	SUPPLEIVIENTART PREAINIBLES				
	Fixing				
	Items described as "nailed" shall be deemed to be fixed with hardened				
	steel nails or pins, or to be shot-pinned, to bricwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to				
	fibre, plastic or metal plugs at not exceeding 500mm cetres, and where described as "bolted", the bolts have been given elsewhere.				
	Ceilings				
	Unless otherwise described ceilings shall be deemed to be horizontal				
	Bulkheads				
	Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. The purpose is either to conceal services or to create architectural features				
	Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings				
	Unless otherwise described bulkheads shall be deemed to be horizontal along the length				
	Steel components				
	All steel components for ceilings, partitions, etc are to be galvinised in accordance with SANS 121				
	SUSPENDED CEILINGS				
	9mm "Rhino" gypsum plasterboard with taped and skimmed joints				
KIM 3.7.1	Ceilings installed using propriety framing system all according to manufacturers specifications	m2	150,00	R	R
KIM 3.7.2	Vertical ceilings installed using propriety framing system all according to manufacturers specifications	m2	120,00	R	R
KIM 3.7.3	Horizontal bulkheads installed using propriety framing system all according to manufacturers specifications	m2	120,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		600 x 1200mm panels on pre painted (pre-coated) suspension system including main and cross tees necessary hangers, grids, etc				
		Provide the prime cost of R 400.00/m2 for suspended ceiling system				
KIM	3.7.4	Ceilings suspended below soffits	m2	150,00	R	R
KIM	3.7.5	Horizontal bulkheads suspended below concrete soffits	m2	120,00	R	R
KIM	3.7.6	Sloping bulkheads suspended below concrete soffits	m2	120,00	R	R
KIM	3.7.7	Extra over ceiling for opening for sprinkler head	No	20,00	R	R
KIM	3.7.8	Extra over ceiling for opening for down lighter	No	20,00	R	R
KIM	3.7.9	Extra over ceiling for 600 x 1 200mm light fitting	No	20,00	R	R
		600mm x 600mm panels on pre painted (pre-coated) exposed tee suspension system				
		Provide the prime cost of R 400.00/m2 for suspended ceiling system				
KIM	3.7.10	Ceilings suspended below soffits	m2	150,00	R	R
KIM	3.7.11	Horizontal bulkheads suspended below concrete soffits	m2	120,00	R	R
KIM	3.7.12	Sloping bulkheads suspended below concrete soffits	m2	120,00	R	R
KIM	3.7.13	Extra over ceiling for opening for sprinkler head	No	20,00	R	R
KIM	3.7.14	Extra over ceiling for opening for down lighter	No	20,00	R	R
KIM	3.7.15	Extra over ceiling for 600 x 600mm light fitting	No	20,00	R	R
		Cornices to suspended ceilings				
		Provide the prime cost of R 80.00 per meter for cornices				
KIM	3.7.16	Pre-painted / coated cornices plugged	m	70,00	R	R
		Shadowline to suspended ceilings				
		Provide the prime cost of R 80.00 per meter for shadowline trim				
KIM	3.7.17	Pre-painted / coated shadowline trim fixed	m	70,00	R	R
		Insulation				
KIM	3.7.18	Isotherm 100mm thick polyester thermal ceiling insulation laid on ceilings (measured nett)	m2	250,00	R	R
		PARTITIONS				
		"76mm wide Rhino-Drywall System " steel stud partitioning with "12mm thick Rhino Wall board" on both sides including skirtings and top track all as per manufacturers specifications				
KINA	3.7.19	Partitioning up to 2 600mm high with bottom and top tracks plugged	m2	170,00	R	R
	3.7.20	Partitioning up to 2 900mm high with bottom and top tracks plugged	m2	150,00	R	R
VIN A	3.7.21	Partitioning up to 3 500mm high with bottom and top tracks plugged	m2	140,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		Provide the prime cost of R 2000.00 per door leaf & hinges for single door						
		openings						
KIM	3.7.22	Extra over partitioning for Single Door hung to pressed steel door frame including additional studding, trimming, etc.	No	10,00	R		R	
		Provide the prime cost of R 3 500.00 for double door openings						
KIM	3.7.23	Extra over partitioning for Double Door hung to pressed steel door frame including additional studding, trimming, etc.	No	10,00	R		R	
		Materials & Plant						
KIM	3.7.24	Provision for Sundry Materials & Plant	Prov	1,00	R	31 150,00	R	31 150,00
	3.7.25	Allow for profit & attendance if required	%	•	R	31 150,00		,
		Provisional Sum						
	3.7.26 3.7.27	Sundry Ceilings, Partitions & Access Flooring Works Allow for profit & attendance if required	Sum %	1,00	R R	31 150,00 31 150,00		31 150,00
					L			
_		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE	,	AMOUNT
	SECTION 3						
	BUILDING WORKS						
	BILL NO.8						
	FLOOR COVERINGS, WALL LININGS, ETC						
	PREAMBLES						
	PREAIVIBLES						
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)						
	SUPPLEMENTARY PREAMBLES						
	Fixing						
	1 Alling						
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc						
	Surface preparation, priming, curing, cleaning etc						
	Descriptions of the items below are deemed to include all necessary						
	preparation, priming, mixing, curing, cleaning etc as prescribed by the manufacturers of the various products						
	FLOOR COVERINGS						
	Provide the prime cost amount of R500.00 per m2 for supply and delivery of vinyl floor finishes laid with approved adhesive on screeds in accordance with manufacturers instructions						
KIM 3.8.1	On floors	m2	240,00	R		R	
KIM 3.8.2	On treads and risers of stairs	m2	69,00	R		R	
	High traffic epoxy floor paint 2.5 to 3mm thick as per specialists specifications						
KIM 3.8.3	On floors	m2	250,00	R		R	
	Provide the prime cost amount of R500.00 per m2 for supply and delivery of carpet tiles laid with approved adhesive in accordance with						
	manufacturers instructions						
KIM 3.8.4	On floors	m2	240,00	R		R	
KIM 3.8.5	On treads and risers of stairs	m2	69,00	R		R	
	Materials & Plant						
KIM 3.8.6	Provision for Sundry Materials & Plant	Prov	1,00	R	15 575,00	R	15 575,00
KIM 3.8.7	Allow for profit & attendance if required	%	1,00	R	15 575,00		13 37 3,00
	Provisional Sum						
KIM 3.8.8	Sundry Floor Coverings Wall Linings etc Works	Sum	1.00	R	15 575,00	R	15 575,00
KIIVI 3.8.8 KIM 3.8.9	Allow for profit & attendance if required	Sum %	1,00	R	15 575,00		13 3/3,00

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.9				
	IRONMONGERY				
	PREAMBLES				
	INCAMPLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	CURN FLATING BY BREALEN FO				
	SUPPLEMENTARY PREAMBLES				
	General				
	General				
	Corrosion proof ironmongery shall be provided as far as possible and shall				
	be fitted by professional carpenter				
	Proprietary items				
	Whose applicable the manufacturerel names or product estalogue titles				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-heading preceding the items				
	are given in sub-neading preceding the items				
	Prices are to be based on the specific products/articles specified. If				
	tenders wish to offer alternative products/articles for certain items, these				
	items are to be clearly marked and the alternative specification given with				
	supporting brochures etc clarifying the features of the products/articles				
	offered.				
	On request returnable samples are to be provided to the employer's representative for consideration.				
	representative for consideration.				
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by				
	suffixes in accordance with the following list:				
	BS Satin bronze lacquered				
	CH Chromium plated				
	SC Satin chromium plated SE Silver enamelled				
	GE Grey enamelled				
	AN Anodised natural				
	AS Anodised silver				
	AB Anodised bronze				
	AG Anodised gold				
	ABL Anodised black				
	PB Polished brass				
	PL Polished and lacquered				
	PT Epoxy coated				
	SD Sanded				
	LOCKS, ETC				
	Drouide the prime cost amount of P7FO 00 each for sulinder leakers				
	Provide the prime cost amount of R750.00 each for cylinder locksets				
	installed complete				
KIM 3.9.1	On single doors	No	100,00	R	R
	3		,30		
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ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HINGES, BOLTS, ETC				
		<u>Hinges</u>				
KIM	3.9.3	Provide the prime cost amount of R350.00 for 100 x 75mm butt hinges (per pair) installed complete	No	190,00	R	R
		PUSH PLATES AND KICKING PLATES				
		Push plates, kick plates etc				
KIM	3.9.4	Provide the prime cost amount of R750.00 each for Push Plates & Kick Plates installed complete	No	50,00	R	R
		DOOR CLOSERS				
		<u>Door Closers</u>				
KIM	3.9.5	Provide the prime cost amount of R3000.00 each for door closers installed complete	No	100,00	R	R
		Panic Bolts etc				
KIM	3.9.6	Provide the prime cost amount of R2500.00 each for panic bolts for single doors installed complete	No	20,00	R	R
KIM	3.9.7	Provide the prime cost amount of R5500.00 each for panic bolts for double doors installed complete	No	10,00	R	R
		HANDLES				
		Handles etc				
KIM	3.9.8	Provide the prime cost amount of R1000.00 each for door handles installed complete	No	90,00	R	R
		CATCHES, CABIN HOOKS, ETC				
		<u>Cabin Hooks etc</u>				
KIM	3.9.9	Provide the prime cost amount of R300.00 each for cabin & coat hooks installed complete	No	10,00	R	R
		BATHROOM FITTINGS				
		Toilet Roll Holder				
KIM	3.9.10	Provide the prime cost amount of R1000.00 each for toilet roll holder plugged to brickwork.	No	20,00	R	R
		Soap Dispenser				
KIM	3.9.11	Provide the prime cost amount of R1000.00 each for soap dispenser plugged to brickwork.	No	20,00	R	R
		Stainless Steel Grab Rail				
KIM	3.9.12	Provide the prime cost amount of R1000.00 each for stainless steel grab rails plugged to brickwork.	No	10,00	R	R
		SUNDRIES				
		"Solid"				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KIM	3.9.13	Door stop (CZ8731CH) fixed with counter sunk-sunk bolt	No	40,00	R		R	
		into anchor bolt						
		Materials & Plant						
	3.9.14 3.9.15	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	23 350,00 23 350,00	R R	23 350,00
		Provisional Sum						
1/10.4	2016			1.00		22.252.00		22.250.00
	3.9.16 3.9.17	Sundry Floor Ironmongery Works Allow for profit & attendance if required	Sum %	1,00	R R	23 350,00 23 350,00		23 350,00
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.10				
	METALWORK				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	JOHN ELMENTARY I REALIBLES				
	Descriptions of bolts, anchors, etc				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of boils shall be deemed to include fluts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, wahers and mortices in brickwork or concrete				
	Items described as "holed for bolt(s)" shall be deemed to exclude the				
	bolts unless otherwise described				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm cetres				
	DOOR FRAMES, DOORS, ETC				
	Galvinised pressed steel door frames				
	Curvinisca pressea steer abor frames				
	1,6mm Thick single rebated heavy duty frame for half brick wall complete with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc				
KIM 3.10.1	Frame for door 813 x 2032mm high with three 100mm steel hinges per leaf	No	120,00	R	R
KIM 3.10.2	Frame for door 1613 x 2032mm high with three 100mm steel hinges per leaf	No	70,00	R	R
	1,6mm Thick single rebated heavy duty frame for one brick wall complete with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc				
	was cement mortal, etc				
KIM 3.10.3	Frame for door 813 x 2032mm high with three 100mm steel hinges per leaf	No	120,00	R	R
KIM 3.10.4	Frame for door 1613 x 2032mm high with three 100mm steel hinges per leaf	No	70,00	R	R
	Materials & Plant				
KIM 3.10.5 KIM 3.10.6	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 200 350,00 R 200 350,00	
	Dravisional Sum				
	Provisional Sum				
	Sundry Metalworks	Sum	1,00	R 200 350,00	R 200 350,00
KIM 3.10.7	Suriary Metalworks	Juili	1,00		10 200 330,00

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
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	CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.11				
	DIE NO.11				
	PLASTERING				
	PREAMBLES				
	FREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Granolithic				
	Method				
	The method to be used shall be either the monolithic method or the bonded method				
	Preparation				
	For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic				
	Mix				
	Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic				
	Panels				
	Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width				
	Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints				
	Laying				
			<u> </u>		
	Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Bonded granolithic shall be applied to the slab after applying a 1:1 sand- and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be throughly compacted and lightly wood floated to the required levels				
		After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated				
		Curing, seasoning and protection				
		Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying				
		Colour				
		Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour				
		CEMENT SCREED				
		Preparation				
		Screed to be steel trowelled, no dry mix allowed. Screeds to be level and even with high points ground down. Test samples to be provided of screeds. Moisture content to be checked with hydrometer (moisture not to exceed 75%) or tramex meter (moisture not to exceed 60%). Reading to be taken on average of every 30m. Test samples of screed to be provided. Where applicable, screed to falls to floor drain.				
		Mix				
		1:3 Cement/sand screed mix (SABS 471 and 1083 approved) level 1 standard, 25mpa.				
		SCREED				
		Screed to falls				
		Screeds wood floated, on concrete				
KIM	3.11.1	25mm Thick on floors and landings	m2	370,00	R	R
KIM	3.11.2	30mm Thick on floors and landings	m2	120,00	R	R
KIM	3.11.3	30mm Thick on floors on waterproofing membrane	m2	100,00	R	R
KIM	3.11.4	Average 30mm thick on floors with upper surface to falls	m2	40,00	R	R
KIM	3.11.5	Average 30mm thick on floors with upper surface to falls and currents	m2	40,00	R	R
KIM	3.11.6	Average 40mm thick on roofs with upper surface to falls	m2	40,00	R	R
KIM	3.11.7	Average 40mm thick on roofs with upper surface to falls and currents	m2	40,00	R	R
KIM	3.11.8	25mm Thick on treads and risers of stairs including reedings	m2	40,00	R	R
KIM	3.11.9	30mm Thick on treads and risers of stairs	m2	40,00	R	R
KIM	3.11.10	30mm Thick on narrow widths not exceeding 300mm wide	m2	40,00	R	R
KIM	3.11.11	Reedings in finish on ramps	m2	40,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.11.12	50 x 50mm Triangular fillets against walls, kerbs, etc	m	40,00	R	R
		Screeds steel trowelled, on concrete				
KIM	3.11.13	25mm Thick on floors and landings	m2	370,00	R	R
KIM	3.11.14	30mm Thick on floors and landings	m2	120,00	R	R
KIM	3.11.15	30mm Thick on floors on waterproofing membrane	m2	100,00	R	R
KIM	3.11.16	Average 30mm thick on floors with upper surface to falls	m2	40,00	R	R
KIM	3.11.17	Average 30mm thick on floors with upper surface to falls and currents	m2	40,00	R	R
KIM	3.11.18	Average 40mm thick on roofs with upper surface to falls	m2	40,00	R	R
KIM	3.11.19	Average 40mm thick on roofs with upper surface to falls and currents	m2	40,00	R	R
KIM	3.11.20	25mm Thick on treads and risers of stairs including reedings	m2	40,00	R	R
KIM	3.11.21	30mm Thick on treads and risers of stairs	m2	40,00	R	R
KIM	3.11.22	30mm Thick on narrow widths not exceeding 300mm wide	m2	40,00	R	R
KIM	3.11.23	Reedings in finish on ramps	m2	40,00	R	R
KIM	3.11.24	50 x 50mm Triangular fillets against walls, kerbs, etc	m2	40,00	R	R
		GRANOLITHIC				
		Untinted granolithic on concrete				
KIM	3.11.25	25mm Thick on floors and landings	m2	250,00	R	R
KIM	3.11.26	30mm Thick on floors and landings	m2	120,00	R	R
KIM	3.11.27	50mm Thick on floors and landings	m2	100,00	R	R
KIM	3.11.28	Average 30mm thick on floors with upper surface to falls	m2	40,00	R	R
KIM	3.11.29	Average 30mm thick on floors with upper surface to falls and currents	m2	40,00	R	R
KIM	3.11.30	Average 40mm thick on roofs with upper surface to falls	m2	40,00	R	R
KIM	3.11.31	Average 40mm thick on roofs with upper surface to falls and currents	m2	40,00	R	R
KIM	3.11.32	25mm Thick on treads and risers of stairs including reedings	m2	40,00	R	R
KIM	3.11.33	30mm Thick on treads and risers of stairs	m2	40,00	R	R
KIM	3.11.34	30mm Thick on narrow widths not exceeding 300mm wide	m2	40,00	R	R
KIM	3.11.35	Reedings in finish on ramps	m2	40,00	R	R
KIM	3.11.36	Skirtings 100mm high	m	40,00	R	R
KIM	3.11.37	Skirtings 100mm high stepped over treads and risers	m	40,00	R	R
		EXTERNAL PLASTER				
		Class I cement plaster on brickwork	1			
	3.11.38	On walls	m2	570,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE	,	AMOUNT
		Class I cement plaster on concrete						
KIM	3.11.39	On walls / columns	m2	250,00	R		R	
KIM	3.11.40	On soffits / beams	m2	250,00	R		R	
		INTERNAL PLASTER						
		Class I cement plaster on brickwork						
KIM	3.11.41	On walls	m2	570,00	R		R	
		Class I cement plaster on concrete						
KIM	3.11.42	On walls/ columns	m2	250,00	R		R	
KIM	3.11.43	On soffits / beams	m2	250,00	R		R	
		Rhinolite skim plaster 20mm thick with smooth trowel finish						
KIM	3.11.44	On partition walls	m2	200,00	R		R	
KIM	3.11.45	On plaster board ceilings	m2	250,00	R		R	
	3.11.46	On bulkheads	m2	250,00	R		R	
		CORNER PROTECTORS, DIVIDING STRIPS, ETC						
KINA	3.11.47	3 x 25mm Flat section galvanised mild steel dividing strip set on edge in	m	150,00	R		R	
KIIVI	3.11.47	screed between different floor finishes		130,00	IX.		IV.	
KIM	3.11.48	3 x 25mm Flat section brass dividing strip or waterbar set on edge in screed between different floor finishes	m	150,00	R		R	
		Materials & Plant						
KIM	3.11.49	Provision for Sundry Materials & Plant	Prov	1,00	R	15 575,00	R	15 575,00
KIM	3.11.50	Allow for profit & attendance if required	%		R	15 575,00	R	
		Provisional Sum						
	3.11.51	Sundry Plasterworks	Sum	1,00	R	15 575,00		15 575,00
KIM	3.11.52	Allow for profit & attendance if required	%		R	15 575,00	К	
		CARRIED TO SECTION SUMMARY					R	

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.12				
		TILING				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		er to				
		Fixing				
		Descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat. Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with adhesives and grouts from the "tal Goldstar" range or equal approved.				
		WALL TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic wall tiles fixed with adhesive to:				
KINA	3.12.1	On walls	m2	250,00	R	R
KIIVI	J.12.1	Oil Walls	1112	230,00	IN.	IN.
KIM	3.12.2	On narrow widths	m2	70,00	R	R
		Provide the prime cost amount of R 500.00 per m2 for porcelain wall tiles fixed with adhesive to:				
KIM	3.12.3	On walls	m2	250,00	R	R
KIM	3.12.4	On narrow widths	m2	70,00	R	R
		FLOOR TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic floor tiles fixed with adhesive to:				
KIM	3.12.5	On floors	m2	400,00	R	R
	3.12.6	On narrow widths	m2	70,00	R	R
KIM	3.12.7	On floors landings in patterns	m2	120,00	R	R
		Provide the prime cost amount of R 500.00 per m2 for porcelain floor				
		tiles fixed with adhesive to:				
KIM	3.12.8	On floors	m2	370,00	R	R
KIM	3.12.9	On narrow widths	m2	70,00	R	R
KIM	3.12.10	On floors landings in patterns	m2	120,00	R	R
				,		

KIM 3.12.18 Allow for profit & attendance if required	ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Aluminium dividing strips Provide the prime cost amount of R 75.00 per m for dividing strips: KIM 312.11 Flat section dividing strips between tiles							
Provide the prime cost amount of R 75.00 per m for dividing strips:			SUNDRIES				
Flat section dividing strips between tiles			Aluminium dividing strips				
KIM 3.12.12 L-section dividing strips between tiles			Provide the prime cost amount of R 75.00 per m for dividing strips:				
Aluminium / Stainless steel/ Brass/ corner protectors, stair nosings, expansion joint strips, etc Provide the prime cost amount of R 200.00 per m for trims: KIM 312.13 Corner protectors m 20,00 R R R KIM 312.14 Stair nosings m 20,00 R R R KIM 312.15 Single expansion joint strips with vinyl rubber inlay m 20,00 R R KIM 312.16 Double expansion joint strips with vinyl rubber inlay m 20,00 R R KIM 312.17 Provision for Sundry Materials & Plant KIM 312.17 Provision for Sundry Materials & Plant KIM 312.19 Sundry Tiling Works Sun 1,00 R 38 925,00 R 38 925,00 R KIM 312.20 Mark up provision on sundry Tiling Works Sun 1,00 R 38 925,00 R 38 925,00 R R 38 925,00 R R 38 925,00 R	KIM	3.12.11	Flat section dividing strips between tiles	m	50,00	R	R
Expansion joint strips, etc	KIM	3.12.12	L-section dividing strips between tiles	m	50,00	R	R
KIM 3.12.13 Corner protectors							
KIM 3.12.14 Stair nosings			Provide the prime cost amount of R 200.00 per m for trims:				
KIM 3.12.15 Single expansion joint strips with vinyl rubber inlay m 20,00 R R R KIM 3.12.16 Double expansion joint strips with vinyl rubber inlay m 20,00 R R R Materials & Plant KIM 3.12.17 Provision for Sundry Materials & Plant KIM 3.12.18 Provision for Sundry Materials & Plant KIM 3.12.19 Provisional Sum Provisional Sum KIM 3.12.19 Sundry Tiling Works KIM 3.12.19 Sundry Tiling Works KIM 3.12.20 Mark up provision on sundry Tiling Works Mark up provision on sundry Tiling Works	KIM	3.12.13	Corner protectors	m	20,00	R	R
KIM 3.12.15 Single expansion joint strips with vinyl rubber inlay m 20,00 R R R KIM 3.12.16 Double expansion joint strips with vinyl rubber inlay m 20,00 R R R Materials & Plant KIM 3.12.17 Provision for Sundry Materials & Plant KIM 3.12.18 Allow for profit & attendance if required % R 38 925,00 R Provisional Sum KIM 3.12.19 Sundry Tiling Works Sundry Tiling Works % R 38 925,00 R KIM 3.12.20 Mark up provision on sundry Tiling Works % R 38 925,00 R	KIM	3.12.14	Stair nosings	m	20,00	R	R
KIM 3.12.16 Double expansion joint strips with vinyl rubber inlay m 20,00 R R R Materials & Plant KIM 3.12.17 Provision for Sundry Materials & Plant KIM 3.12.18 Allow for profit & attendance if required % R 38 925,00 R Provisional Sum KIM 3.12.19 Sundry Tiling Works KIM 3.12.20 Mark up provision on sundry Tiling Works % R 38 925,00 R Allow for profit & attendance if required % R 38 925,00 R Sundry Tiling Works KIM 3.12.20 Mark up provision on sundry Tiling Works % R 38 925,00 R	KIM	3.12.15		m		R	R
Materials & Plant							
RIM 3.12.17 Provision for Sundry Materials & Plant Prov 1,00 R 38 925,00 R 38 925,00 R	KIM	3.12.16	Double expansion joint strips with vinyl rubber inlay	m	20,00	R	R
KIM 3.12.18 Allow for profit & attendance if required			Materials & Plant				
KIM 3.12.19 Sundry Tiling Works Sum 1,00 R 38 925,00 R 38 925,00 R R R R R R R R R R R R R R R R R R					1,00		
KIM 3.12.20 Mark up provision on sundry Tiling Works			Provisional Sum				
KIM 3.12.20 Mark up provision on sundry Tiling Works	1/18.4	2.42.40	C. d. The West	6	1.00	D 20.025.00	20.025.00
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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.13				
	PLUMBING & DRAINAGE				
	PREAMBLES				
	The contract of conditions to the contract of the decrease Made				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Wire gratings				
	Descriptions of gutter outlets etc shall be deemed to include wire balloon				
	gratings				
	Stormwater channels				
	Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on				
	site				
	Stainless steel basins, sinks, wash troughs, urinals, etc				
	Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)				
	1ype 430 (17/0)				
	Stainless steel for basins, quality sinks, wash troughs, institutional				
	equipment, etc shall be Type 304 (18/8)				
	Helica de Il her esta de de como esta de como de de como de Prosta de				
	Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable				
	against wans where applicable				
	Sealing of edges				
	Outer edges of sinks, basins, etc are to be sealed against adjacent surfaces				
	with approved silicone				
	uPVC pipes and fittings				
	and the property of the state o				
	Sewer and drainage pipes and fittings shall be jointed and sealed with				
	butyl rubber rings				
	Soil, waste and vent pipes and fittings shall be solvent weld jointed or				
	sealed with butyl rubber rings				
	Secret With Such Lunder Hills				
	uPVC pressure pipes and fittings				
	Pipes of 50mm diameter and smaller shall be plain ended with solvent				
	welded uPVC loose sockets and fittings				
	Pipes of 63mm diameter and greater shall have sockets and spigots with				
	push-in type integral rubber ring joints. Bends shall be uPVC and all other				
	fittings shall be cast iron, all with similar push-in type joints				
	High density polyethylene (HDPe) pipes and fittings				
	Pipes shall be type IV and of the class specified with "Plasson" or				
	"Alprene" compression fittings			1	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Copper pipes				
	Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016				
	Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition				
	Reducing fittings				
	Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained				
	Fixing of pipes				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level				
	Paper wrapping to pipes				
	Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings				
	Disinfection of water pipework				
	Water pipework is to be disinfected at completion in accordance with SABS 1200L				
	"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.				
	Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps				
	Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc				
	Prices for wrapping of pipes shall include for all work as described to couplings in the length				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
	Where no manufacturers' instructions exist, pipes shall be laid in accordance with each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers SABS 1200LE: Stormwater drainage				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB : Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	General				
	Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)				
	Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends				
	Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction and disposal of surplus material on site				
	Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)				
	Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes				
	As-built drawings Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract/package the contractor shall hand these drawings to the employer's representative for reproducing onto the originals for handing over to the employer				
	SANITARY FITTINGS				
	NOTE:				
	All fittings butting up against wall or floor finishes or fitting into preformed openings in timber tops are to be sealed with an approved all purpose silicone sealant				
	Prices for sinks described as drop in are to include for preparing the worktop to receive the fitting and securely fixing sinks to worktops using clips provided. The contractor is to provide worktop manufacturers with details of cut outs to ensure that the cut openings are sufficiently accurate to provide proper engagement for these clips				
	Note: Stainless steel for urinals, basins, sinks, etc, shall be type 304 (18/8)				
	304 Stainless Steel				
	Provide the prime cost amount of R 1800.00 each for wash troughs:				
KIM 3.13.1	Single bowl wash trough. Unit to be fixed to the wall with a pair of Stainless Steel wallfixing brackets.	No	10,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Provide the prime cost amount of R 3200.00 each for wash troughs:				
KIM	3.13.2	Double bowl wash trough. Unit to be fixed to the wall with a pair of Stainless Steel wallfixing brackets.	No	10,00	R	R
		Sinks				
		Provide the prime cost amount of R 1800.00 each for sinks:				
KIM	3.13.3	Stainless steel single end bowl sink and drainer set in top of timber / stone counter top (Elsewhere measured).	No	10,00	R	R
		Provide the prime cost amount of R 3200.00 each for wash troughs:				
KIM	3.13.4	Stainless steel double bowl sink and drainer set in top of timber / stone counter top (Elsewhere measured).	No	10,00	R	R
		Wash hand basin				
KIM	3.13.5	Provide the prime cost amount of R 2200.00 each for wall mounted basin	No	10,00	R	R
		Wash hand basin "Paraplegic"				
KIM	3.13.6	Provide the prime cost amount of R 2200.00 each for wall mounted paraplegic basin	No	7,00	R	R
		<u>Urinals</u>				
KIM	3.13.7	Provide the prime cost amount of R 5000.00 each for wall mounted urinals	No	10,00	R	R
		Toilets etc				
KIM	3.13.8	Provide the prime cost amount of R 4000.00 each for toilets installed complete	No	20,00	R	R
KIM	3.13.9	Provide the prime cost amount of R 5000.00 each for paraplegic toilets installed complete		10,00	R	R
		WASTE UNIONS ETC				
		"Cobra Watertech" or equal approved				
KIM	3.13.10	40mm Wash trough waste	No	40,00	R	R
		TRAPS ETC				
		PVC				
KIM	3.13.11	Rubber waste reseal "P" 32x40mm (basin)	No	40,00	R	R
		TAPS, VALVES, ETC				
		Taps, showers etc				
KIM	3.13.12	Provide the prime cost amount of R 2000.00 each for taps and sink mixers	No	10,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.13.13	Provide the prime cost amount of R 1500.00 each for shower heads	No	10,00	R	R
KIM	3.13.14	Provide the prime cost amount of R 2000.00 each for shower mixers	No	10,00	R	R
KIM	3.13.15	22mm Brass Non-return valve	No	10,00	R	R
		SANITARY PLUMBING				
		uPVC soil and vent pipes				
KIM	3.13.16	40mm Diameter Pipes	m	50,00	R	R
KIM	3.13.17	50mm Diameter Pipes	m	50,00	R	R
KIM	3.13.18	75mm Diameter Pipes	m	50,00	R	R
KIM	3.13.19	110mm Diameter Pipes	m	50,00	R	R
		Extra over uPVC soil and vent pipes for fittings				
KIM	3.13.20	40mm Bend	No	20,00	R	R
KIM	3.13.21	40mm Inspection bend	No	20,00	R	R
KIM	3.13.22	40mm Junction	No	20,00	R	R
KIM	3.13.23	50mm BSP adaptor	No	20,00	R	R
				,		
	3.13.24	50mm Bend	No	20,00	R	R
	3.13.25	50mm Inspection bend	No	20,00	R	R
KIM	3.13.26	50mm Junction	No	20,00	R	R
KIM	3.13.27	50mm Access bend	No	20,00	R	R
KIM	3.13.28	50mm vent valve	No	20,00	R	R
KIM	3.13.29	50mm Two way vent valve	No	20,00	R	R
KIM	3.13.30	50mm Inspection junction	No	20,00	R	R
KIM	3.13.31	75mm Bend	No	20,00	R	R
KIM	3.13.32	75mm Inspection bend	No	20,00	R	R
KIM	3.13.33	75mm Junction	No	20,00	R	R
KIM	3.13.34	75mm Inspection junction	No	20,00	R	R
KIM	3.13.35	75mm Reducing junction	No	20,00	R	R
	3.13.36	75mm Inspection reducing junction	No	20,00	R	R
KIM	3.13.37	75mm Reducer	No	20,00	R	R
KIM	3.13.38	110mm Bend	No	20,00	R	R
KIM	3.13.39	110mm Inspection bend	No	20,00	R	R
KIM	3.13.40	110mm Junction	No	20,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.13.41	110mm Inspection junction	No	20,00	R	R
KIM	3.13.42	110mm Reducing junction	No	20,00	R	R
KIM	3.13.43	110mm Inspection reducing junction	No	20,00	R	R
KIM	3.13.44	110mm Reducer	No	20,00	R	R
KIM	3.13.45	110mm Pan connector	No	20,00	R	R
KIM	3.13.46	110mm Two way vent valve	No	20,00	R	R
		Testing				
KIM	3.13.47	Testing waste pipe system	Item	1,00	R	R
		WATER SUPPLIES				
		Class 0 copper pipes with brass compression couplings				
KIM	3.13.48	15mm Pipes	m	50,00	R	R
	3.13.49	15mm Pipes chased into brickwork or concrete	m	50,00	R	R
	3.13.50	22mm Pipes	m	50,00	R	R
	3.13.51			50,00	R	R
		22mm Pipes chased into brickwork or concrete	m	,		
KIM	3.13.52	28mm Pipes	m	50,00	R	R
KIM	3.13.53	28mm Pipes chased into brickwork or concrete	m	50,00	R	R
KIM	3.13.54	35mm Pipes	m	50,00	R	R
KIM	3.13.55	35mm Pipes chased into brickwork or concrete	m	50,00	R	R
KIM	3.13.56	42mm Pipes	m	50,00	R	R
KIM	3.13.57	54mm Pipes	m	50,00	R	R
KIM	3.13.58	67mm Pipes	m	50,00	R	R
KIM	3.13.59	76mm Pipes	m	50,00	R	R
KIM	3.13.60	108mm Pipes	m	50,00	R	R
		Extra over Class 0 copper pipes for capillary fittings				
KIM	3.13.61	15mm Fittings	No	20,00	R	R
	3.13.62					
		22mm Fittings	No	20,00	R	R
	3.13.63	28mm Fittings	No	20,00	R	R
KIM	3.13.64	35mm Fittings	No	20,00	R	R
KIM	3.13.65	42mm Fittings	No	20,00	R	R
KIM	3.13.66	54mm Fittings	No	20,00	R	R
KIM	3.13.67	67mm Fittings	No	20,00	R	R
KIM	3.13.68	76mm Fittings	No	20,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.13.69	108mm Fittings	No	20,00	R	R
		Extra over Class 0 copper pipes for brass compression fittings				
KIM	3.13.70	15mm Fittings	No	20,00	R	R
KIM	3.13.71	22mm Fittings	No	20,00	R	R
KIM	3.13.72	28mm Fittings	No	20,00	R	R
KIM	3.13.73	35mm Fittings	No	20,00	R	R
KIM	3.13.74	42mm Fittings	No	20,00	R	R
KIM	3.13.75	54mm Fittings	No	20,00	R	R
KIM	3.13.76	67mm Fittings	No	20,00	R	R
KIM	3.13.77	76mm Fittings	No	20,00	R	R
KIM	3.13.78	108mm Fittings	No	20,00	R	R
		Class 12.5 "HDPE" Pipes				
KIM	3.13.79	20mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	50,00	R	R
KIM	3.13.80	32mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	50,00	R	R
KIM	3.13.81	40mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	50,00	R	R
KIM	3.13.82	50mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	50,00	R	R
KIM	3.13.83	75mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	50,00	R	R
KIM	3.13.84	90mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	50,00	R	R
KIM	3.13.85	110mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	50,00	R	R
		Extra over "HDPE" for fittings				
KIM	3.13.86	20mm Diameter Straight Coupling	No	20,00	R	R
	3.13.87	20mm Diameter Reducing Coupling	No	20,00	R	R
	3.13.88	20mm Diameter Equal Tee	No	20,00	R	R
	3.13.89	20mm Diameter Male Adaptor	No	20,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.13.90	20mm Diameter 90 Degree Elbow	No	20,00	R	R
KIM	3.13.91	40mm Diameter Straight Coupling	No	20,00	R	R
KIM	3.13.92	40mm Diameter Reducing Coupling	No	20,00	R	R
KIM	3.13.93	40mm Diameter Equal Tee	No	20,00	R	R
KIM	3.13.94	40mm Diameter Male Adaptor	No	20,00	R	R
KIM	3.13.95	40mm Diameter 90 Degree Elbow	No	20,00	R	R
KIM	3.13.96	50mm Diameter Straight Coupling	No	20,00	R	R
KIM	3.13.97	50mm Diameter Reducing Coupling	No	20,00	R	R
KIM	3.13.98	50mm Diameter Equal Tee	No	20,00	R	R
KIM	3.13.99	50mm Diameter Male Adaptor	No	20,00	R	R
KIM	3.13.100	50mm Diameter 90 Degree Elbow	No	20,00	R	R
KIM	3.13.101	75mm Diameter Straight Coupling	No	20,00	R	R
KIM	3.13.102	75mm Diameter Reducing Coupling	No	20,00	R	R
KIM	3.13.103	75mm Diameter Equal Tee	No	20,00	R	R
KIM	3.13.104	75mm Diameter Male Adaptor	No	20,00	R	R
KIM	3.13.105	75mm Diameter 90 Degree Elbow	No	20,00	R	R
KIM	3.13.106	90mm Diameter Straight Coupling	No	20,00	R	R
KIM	3.13.107	90mm Diameter Reducing Coupling	No	20,00	R	R
KIM	3.13.108	90mm Diameter Equal Tee	No	20,00	R	R
KIM	3.13.109	90mm Diameter Male Adaptor	No	20,00	R	R
KIM	3.13.110	90mm Diameter 90 Degree Elbow	No	20,00	R	R
KIM	3.13.111	110mm Diameter Straight Coupling	No	20,00	R	R
KIM	3.13.112	110mm Diameter Reducing Coupling	No	20,00	R	R
KIM	3.13.113	110mm Diameter Equal Tee	No	20,00	R	R
KIM	3.13.114	110mm Diameter Male Adaptor	No	20,00	R	R
		110mm Diameter 90 Degree Elbow	No	20,00	R	R
		ELECTRIC WATER HEATERS				
		"Kwikot" or similar approved including all fittings, adaptors,				
		couplings, etc, for connection to the relevant piping.				
KIM	3.13.116	Provide the prime cost amount of R 3000.00 each for undercounter geysers	No	9,00	R	R
KIM	3.13.117	Provide the prime cost amount of R 7000.00 each for 100 litre geysers	No	7,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	3.13.118	Provide the prime cost amount of R 9000.00 each for 150 litre geysers	No	5,00	R	R
KIM	3.13.119	Provide the prime cost amount of R 11000.00 each for 200 litre geysers	No	5,00	R	R
		Testing				
KIM	3.13.120	Testing supply water pipe system	Item	1,00	R	R
		HOLES ETC				
		Core drilling of hole for pipe not exceeding 50mm diameter				
KIM	3.13.121	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	10,00	R	R
	01201222	Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm	110	10,00		
		diameter				
KIM	3.13.122	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	10,00	R	R
		Materials & Plant				
KIM	3.13.123	Provision for Sundry Materials & Plant	Prov	1,00	R 46 725,00	R 46 725,00
		Allow for profit & attendance if required	%	1,00	R 46 725,00	
		<u>Provisional Sum</u>				
KIM	3.13.125	Sundry Plumbing Works	Sum	1,00	R 46 725,00	R 46 725,00
KIM	3.13.126	Allow for profit & attendance if required	%		R 46 725,00	R
		CARRIED TO SECTION SUMMARY				R

TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.14				
	PAINTWORK				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces				
	Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	Previously painted wood surfaces				
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
	Paintwork to steel surfaces				
	Steel surfaces to be cleaned of all rust, scale and dirt, removed by scraping or with steel wire brush. All oil and grease shall also be removed to obtain a perfectly clean surface. After removing rust from steel, steel is to be painted with a suitable rust converter and primer. Finish with a quality, extremely durable, washable and pure acrylic emulsion enamel paint. For steel door frames, clean down with galvkleen to manufacturers specification before applying primer for galvanised iron. All door frames to be finished with a Water-Based premium quality satin finish non-drip enamel paint.				
	Paintwork to timber surfaces				
	Exposed timber trusses etc. are to be sanded down to smooth finish working in direction of grain. Apply first coat paint thinned 10 parts paint and one part water for penetration. Apply 1 to 2 further coats unthinned (depending on coverage). All to manufacturer specifications. Colour as per architects spec. Timber door surfaces must be dry, clean and free of contaminants. Sand to a smooth surface, free of loose fibres. Remove all dust prior to the application of the basecoat.				
	PAINT SPECIFICATIONS				
	COLOURS				
	Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091.				

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		NOTE: All paint products utilised must be SABS/SANS approved. All paint products utilised must be suitable for use in commercial/industrial applications. Acceptable products include proffesional or trade ranges from paint manufacturers. All products utilised must be suited to the application in which it will be used. Paint utilised must perform in accordance with applicable and relevant SANS codes/standards				
		The client reserves the right to reject paint coatings / paint systems that perform poorly / fail due to inferior quality/ that are not SABS approved.				
		PAINTWORK TO NEW WORK "Plascon professional range" or equal approved				
		One coat "Professional Gypsum & Plaster Primer" with an overcoating time of 16 hours and finish with three coats finishing coat (Professional Superior Low Sheen acrylic emulsion paint)				
KIM	3.14.1	On internal walls	m2	1000,00	R	R
KIM	3.14.2	On external walls	m2	500,00	R	R
KIM	3.14.3	On ceilings and beams	m2	500,00	R	R
		One coat "Professional Gypsum & Plaster Primer" with an overcoating time of 16 hours and finish with three coats finishing coat (Professional Superior Matt Paint acrylic emulsion paint)				
KIM	3.14.4	On partitions	m2	370,00	R	R
KIM	3.14.5	On ceilings and cornices	m2	370,00	R	R
KIM	3.14.6	On fascias and barge boards	m2	120,00	R	R
		Apply one coat Professional Alkali resistant plaster primer and three coats Paint (Professional Superior Matt Paint)				
KIM	3.14.7	On Rhinolite walls	m2	370,00	R	R
		ON METAL				
		Prime bare metal surfaces with "Superior Quality" zinc chromate and apply one undercoat and two coats paint on steel (Professional high gloss enamel paint)				
KIM	3.14.8	On doors	m2	120,00	R	R
KIM	3.14.9	On door frames	m2	120,00	R	R
KIM	3.14.10	On windows	m2	120,00	R	R
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)				
KIM	3.14.11	On palisade fencing	m2	250,00	R	R
KIM	3.14.12	On steel barriers	m2	120,00	R	R
KIM	3.14.13	On balustrades	m2	120,00	R	R
KIM	3.14.14	On gates, grilles, burglar screens etc.	m2	120,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		ON WOOD				
		One coat wood primer, one undercoat & two coats alkyd enamel paint (Professional gloss enamel paint)				
KIM	3.14.15	On boarded panelling	m2	120,00	R	R
KIM	3.14.16	On boarded ceilings	m2	120,00	R	R
KIM	3.14.17	On doors	m2	120,00	R	R
KIM	3.14.18	On door frames	m2	120,00	R	R
KIM	3.14.19	On skirtings	m	120,00	R	R
		Prime bare areas with "Wood Primer" and apply two coats "Timber Varnish" (High gloss wood varnish)				
KIM	3.14.20	On boarded panelling	m2	120,00	R	R
KIM	3.14.21	On boarded ceilings	m2	120,00	R	R
KIM	3.14.22	On doors	m2	120,00	R	R
KIM	3.14.23	On door frames	m2	120,00	R	R
KIM	3.14.24	On skirtings	m	120,00	R	R
		STEEL ROOFS				
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)				
KIM	3.14.25	On metal roof sheets	m2	620,00	R	R
KIM	3.14.26	To cladding sheets	m2	250,00	R	R
		PREVIOUSLY PAINTED SURFACES				
		"Plascon professional range" or equal approved				
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
KIM	3.14.27	On internal walls	m2	500,00	R	R
KIM	3.14.28	On external walls	m2	500,00	R	R
KIM	3.14.29	On ceilings and beams	m2	370,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Matt Paint)				
KIM	3.14.30	On partitions	m2	370,00	R	R
KIM	3.14.31	On ceilings and cornices	m2	370,00	R	R
KIM	3.14.32	On fascias and barge boards	m2	120,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
KIM	3.14.33	On Rhinolite walls	m2	250,00	R	R

ITEM I	NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		METAL SURFACES WITH						
		Prime bare metal surfaces with "Superior Quality" zinc chromate and apply one undercoat and two coats paint on steel (Professional high gloss enamel paint)						
KIM 3.	14.34	Windows and door frames	m2	120,00	R		R	
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)						
KIM 3.	14.35	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat ares)	m2	120,00	R		R	
		PAINT ON WOOD						
		Prepare and apply two full coats plascon alkyd enamel paint						
KIM 3.	14.36	On general surfaces	m2	120,00	R		R	
		Prepare and apply two full coats plascon alkyd enamel paint						
KIM 3.	14.37	On boarded panelling	m2	120,00	R		R	
KIM 3.	14.38	On boarded ceilings	m2	120,00	R		R	
KIM 3.	14.39	On doors	m2	120,00	R		R	
KIM 3.	14.40	On door frames	m2	120,00	R		R	
KIM 3.	14.41	On skirtings	m	120,00	R		R	
		Prepare and apply two coats "Timber Varnish" (High gloss wood varnish)						
KIM 3.	14.42	On boarded panelling	m2	120,00	R		R	
KIM 3.	14.43	On boarded ceilings	m2	120,00	R		R	
KIM 3.	14.44	On doors	m2	120,00	R		R	
KIM 3.	14.45	On door frames	m2	120,00	R		R	
KIM 3.	14.46	On skirtings	m	120,00	R		R	
		STEEL ROOFS						
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)						
KIM 3.	14.47	On metal roof sheets	m2	850,00	R		R	
KIM 3.	14.48	To cladding sheets	m2	120,00	R		R	
		Materials & Plant						
KIM 3.		Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	38 925,00 38 925,00		38 925,00
		Provisional Sum				-,		
KIM 3.	14.51	Sundry Paint Works	Sum	1,00	R	38 925,00	R	38 925,00
KIM 3.		Allow for profit & attendance if required	%	,	R	38 925,00		

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1					
 					
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	CARRIED TO SECTION SUMMARY				R

BILL	SECTION 3 SUMMARY - BUILDING WORKS	PAGE NO.	AMOUNT
1	Alterations	93	R
2	Earthworks	96	R
3	Concrete, Formwork & Reinforcement	101	R
4	Masonry	104	R
5	Waterproofing	107	R
6	Carpentry & Joinery	109	R
7	Ceilings, Partitions & Access Flooring	112	R
8	Floor Coverings, Wall Linings etc	113	R
9	Ironmongery	116	R
10	Metalwork	118	R
11	Plastering	122	R
12	Tiling	124	R
13	Plumbing & Drainage	133	R
14	Paintwork	138	R
	CARRIED TO SITE	SUMMARY	R

				CLUSTER	R 2
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 4				
	EXTERNAL WORKS				
	BILL NO.1				
	ROADWORKS				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Testing of material and filling				
	Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series				
	Site preparation				
KIM 4.1.1	Trim and level terraced area and compact to set levels.	m2	370,00	R	R
	Digging up topsoil				
KIM 4.1.2	Digging up topsoil to an average depth of 150mm and preserving for use as filling	m3	70,00	R	R
	BULK EXCAVATION, FILLING ETC				
KIM 4.1.3	Open face excavation in earth over sloping site	m3	50,00	R	R
	Excavation				
KIM 4.1.4	Excavate in earth not exceeding 1000mm deep	m3	20,00	R	R
	Keeping excavations free of water				
KIM 4.1.5	Keeping excavations free of water	Item	1,00	R	R
	Extra over all excavations for carting away				
KIM 4.1.6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	60,00	R	R
	LAYER WORK				
	Earth filling obtained from the excavations and/or prescribed stock piles on site				
KIM 4.1.7	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	20,00	R	R
	Filling supplied by the contractor under parking areas, roadways, etc				
KIM 4.1.8	25mm thick clean, dry river sand layer treated with an approved weed killer at a rate of 50 grams per square metre, spread and levelled to receive paving blocks (elsewhere)	m2	120,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	4.1.9	G8 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	10,00	R	R
KIM	4.1.10	G7 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	10,00	R	R
KIM	4.1.11	G7 Gravel-soil material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R
KIM	4.1.12	Extra over for G7 stabilised with Portland cement compacted to 95% Mod AASHTO density	m3	10,00	R	R
KIM	4.1.13	Subbase course of G6 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R
KIM	4.1.14	G5 Natural gravel material compacted in 150mm layers to 93% Mod AASHTO density	m3	10,00	R	R
KIM	4.1.15	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R
KIM	4.1.16	Base course of G4 natural gravel material in 150mm layers compacted to 98% Mod AASHTO density	m3	10,00	R	R
KIM	4.1.17	G2 base compacted to 100% Mod AASHTO density	m3	10,00	R	R
		Compaction of surfaces				
KIM	4.1.18	Compaction of ground surfaces under roadworks etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Roadbed)	m2	370,00	R	R
		SOIL POISONING				
		Weedkiller (active ingredients metolachlor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) or similar approved mixed in the proportion of 100 ml weedkiller to 100l water and applied at a rate of 10 l/m2				
KIM	4.1.19	Under roads, paving etc.	m2	370,00	R	R
		TESTS				
KIM	4.1.20	Prescribed tests to determine degree of compaction or similar approved properties of ground or filling				
KIM	4.1.21	"Modified AASHTO Density" test	No	1,00	R	R
KIM	4.1.22	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	1,00	R	R
KIM	4.1.23	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	1,00	R	R
KIM	4.1.24	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	1,00	R	R
KIM	4.1.25	UCS test in accordance with method A14 of TMH 1	No	1,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	PAVING				
	Provide the prime cost of R 500.00 per square metre for paving bricks delivered to site in accordance with SANS 1058, laid to falls on and including 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor				
KIM 4.1.26	Paving to roadwork and parking to falls	m2	390,00	R	R
KIM 4.1.27	Extra over for curved edges	m	120,00	R	R
	Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing				
	KERBS ETC				
KIM 4.1.28	Fig.1 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.29	Fig.2 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.30	Fig.3 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.31	Fig.4 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.32	Fig.5 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.33	Fig.6 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.34	Fig.6 Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.35	Fig.7 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.36	Fig.8 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.37	Fig.8b Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.38	Fig.8c Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.39	Fig.12 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.40	Fig.14 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KIM 4.1.41	Fig.16 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
	TRAFFIC SIGNS AND ROAD MARKINGS				
	Prepare and apply one coat reflective road marking paint on bituminous road surfacing, precast concrete paving blocks, etc				
KIM 4.1.42	100mm Wide line	m	20,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KINA	4.1.43	150mm Wide line		20.00	R		R	
KIIVI	4.1.43	150mm Wide line	m	20,00	К		К	
KIM	4.1.44	300mm Wide line	m	10,00	R		R	
KIM	4.1.45	Standard type directional arrow not exceeding 1m2	No	1,00	R		R	
KIM	4.1.46	2500 x 2000mm Wide "traffic arrow" road marking paint	No	1,00	R		R	
KIM	4.1.47	5400 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
KIM	4.1.48	6000 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
KIM	4.1.49	Standard directional arrow signs not exceeding 2m2	No	1,00	R		R	
		Materials & Plant						
			_		_		_	
	4.1.50	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R	15 575,00 15 575,00	K D	15 575,00
KIIVI	4.1.51	Allow for profit & attendance if required	%		R	15 5/5,00	ĸ	
		Provisional Sum						
KINA	4.1.52	Sundry Road Works	Sum	1,00	R	15 575,00	D	15 575,00
	4.1.53	Allow for profit & attendance if required	%	1,00	R	15 575,00		13 373,00
10.171	1.1.55	Thou for profit a decemberior in required	,,,			13 37 3,00		
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 4				
	EXTERNAL WORKS				
	BILL NO.2				
	DRAINAGE				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
	Where no manufacturers' instructions exist, pipes shall be laid in				
	accordance with each of the following: SABS 1200L: Medium-pressure pipelines				
	SABS 1200LD : Sewers SABS 1200LE: Stormwater drainage				
	Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB:				
	Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	STORM WATER PIPE				
	Heavy duty uPVC storm water pipes				
KIM 4.2.1	110mm Diameter pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	130,00	R	R
	Extra over for uPVC fittings				
KIM 4.2.2	110mm Bend	No	10,00	R	R
KIM 4.2.3	110mm Junction	No	10,00	R	R
KIM 4.2.4	110mm Access junction	No	10,00	R	R
KIM 4.2.5	110mm Rodding Eye	No	10,00	R	R
	uPVC pipe Class 34 HD				
KIM 4.2.6	160mm Pipes laid in and including trenches(trench to be opened and banked at 1;3 grade allowing pipe to be exposed)	m	80,00	R	R
	Extra over for uPVC fittings				
KIM 4.2.7	160mm Bend	No	10,00	R	R
KIM 4.2.8	160mm Junction	No	10,00	R	R

ITEN	NO N	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KIM	4.2.9	160mm Access junction	No	10,00	R	R
KIM	4.2.10	160mm Rodding Eye	No	10,00	R	R
KIM	4.2.11	Catch pits and junction boxes	No	10,00	R	R
		MANHOLES ETC				
		Construct 1420mm x 1420mm brick manholes with medium duty cast iron manhole cover and frame including excavations, backfilling, compaction				
		and cartaway surplus material, spacer, adaptor slabs, benching, junctions,				
		channelling and step irons for the following depths:				
KIM	4.2.12	Over 0m and up to 1.0m	No	5,00	R	R
KIM	4.2.13	Over 1.0m and up to 2.0m	No	4,00	R	R
KINA	4.2.14		No	2.00	R	R
KIIVI	4.2.14	Over 2m and up to 3m	No	3,00	N.	N .
KIM	4.2.15	Over 3m and up to 4m	No	2,00	R	R
		Construct 1420mm x 1420mm brick manholes with heavy duty cast iron				
		manhole cover and frame including excavations, backfilling, compaction and cartaway surplus material, spacer, adaptor slabs, benching, junctions,				
		channelling and step irons for the following depths:				
KIM	4.2.16	Over 0m and up to 1.0m	No	1,00	R	R
KIM	4.2.17	Over 1.0m and up to 2.0m	No	1,00	R	R
KIM	4.2.18	Over 2m and up to 3m	No	1,00	R	R
KIM	4.2.19	Over 3m and up to 4m	No	1,00	R	R
		Testing Drainage System				
1/10/4	4.2.20		14	1.00	D.	
KIIVI	4.2.20	Testing soil drainage pipe system	Item	1,00	R	R
		Materials & Plant				
	4.2.21	Provision for Sundry Materials & Plant	Prov	1,00	R 7 775,00	
KIM	4.2.22	Allow for profit & attendance if required	%		R 7 775,00	R
		Provisional Sum				
KIM	4.2.23	Sundry Drainage Works	Sum	1,00	R 7 775,00	R 7 775,00
	4.2.24	Allow for profit & attendance if required	%	-	R 7 775,00	
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 4				
	EXTERNAL WORKS				
	BILL NO.3				
	SEWER RETICULATION				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers'				
	instructions and trenches shall be carefully backfilled				
	Where no manufacturers' instructions exist, pipes shall be laid in				
	accordance with each of the following: SABS 1200L: Medium-pressure pipelines				
	SABS 1200LD : Sewers				
	SABS 1200LE: Stormwater drainage				
	Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB:				
	Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	Sewer manhole/ inspection chambers				
	Construct 1420mm x 1420mm brick manholes with medium duty cast iron				
	manhole cover and frame including excavations, backfilling, compaction				
	and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
	chainfeiling and step from for the following depths.				
KIM 4.3.1	Over 0m and up to 1.0m	No	4,00	R	R
KIM 4.3.2	Over 1.0m and up to 2.0m	No	2,00	R	R
KIM 4.3.3	Over 2m and up to 3m	No	2,00	R	R
KIM 4.3.4	Over 3m and up to 4m	No	2,00	R	R
	Construct 1420mm x 1420mm brick manholes with heavy duty cast iron				
	manhole cover and frame including excavations, backfilling, compaction				
	and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
KIM 4.3.5	Over 0m and up to 1.0m	No	1,00	R	R
KIM 4.3.6	Over 1.0m and up to 2.0m	No	1,00	R	R
KIM 4.3.7	Over 2m and up to 3m	No	1,00	R	R
	Over 3m and up to 4m		1,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CONNECTION OF MAIN SEWER LINE TO BUILDINGS				
		Heavy duty (Class 34) uPVC sewer and drain pipes				
KIM	4.3.9	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	50,00	R	R
KIM	4.3.10	110mm Pipes laid in and including trenches not exceeding 1m deep	m	30,00	R	R
		Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings				
KIM	4.3.11	110mm Bend	No	6,00	R	R
KIM	4.3.12	110mm Junction	No	6,00	R	R
KIM	4.3.13	110mm Access bend	No	6,00	R	R
KIM	4.3.14	110mm Access junction	No	6,00	R	R
KIM	4.3.15	110mm Rodding eye	No	6,00	R	R
		Class 34 uPVC pipes				
KIM	4.3.16	160mm Pipes laid in and including trenches(trench to be opened and banked at 1;3 grade allowing pipe to be exposed)	m	80,00	R	R
		Extra over items for uPVC fittings				
KIM	4.3.17	160 x 110 mm Diameter Y junction	No	6,00	R	R
KIM	4.3.18	160 x 160 mm Diameter Y junction	No	6,00	R	R
		Channel bends				
KIM	4.3.19	160mm Diameter 45 degree bend	No	6,00	R	R
KIM	4.3.20	160mm Diameter 90 degree bend	No	6,00	R	R
		Sockets				
KIM	4.3.21	160mm Diameter	No	6,00	R	R
		End caps				
KIM	4.3.22	160mm Diameter	No	6,00	R	R
	1.5.22		- 110	0,00		
KIM	4.3.23	Excavation in earth for pipe trenches, chambers, etc	m3	10,00	R	R
KIM	4.3.24	Extra over excavation for pipe trenches, chambers, etc for carting away	m3	10,00	R	R
		surplus material to a dumping site to be located by the contractor				
KIM	4.3.25	Risk of collapse to sides of trenches	m2	30,00	R	R
KIM	4.3.26	Extra over backfilling to drain trenches, chambers, etc for Class B bedding cradle of compacted selected granular material	m3	10,00	R	R
KIM	4.3.27	25Mpa unreinforced concrete encasing to horizontal pipes laid in trenches N.E 1m deep	m3	10,00	R	R
		WATER				
		WAILN				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KIM	4.3.28	Keeping excavations free of water	Item	1,00	R		R	
		uPVC gulleys						
1/18 4	4 2 20		NIc	10.00	_		-	
KIM	4.3.29	110mm Gulley not exceeding 750mm deep including trap, head, grating etc	No	10,00	R		R	
		Testing						
KIM	4.3.30	Testing drainage system	Item	1,00	R		R	
		Materials & Plant						
1/10/4	4 2 24	Description for County Materials 9 Dlant	Descri	1.00	_	7 775 00	0	7 775 00
	4.3.31 4.3.32	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	7 775,00 7 775,00	R R	7 775,00
		Provisional Sum						
	4.3.33	Sundry Sewer Reticulation Works	Sum	1,00	R	7 775,00	R	7 775,00
KIM	4.3.34	Allow for profit & attendance if required	%		R	7 775,00	R	
			-					
							_	
		CARRIED TO SECTION SUMMARY					R	

	OFOTION 4 CHIMMARY EVERNAL WORKS	DAGE NO	ANACHINIT
BILL	SECTION 4 SUMMARY - EXTERNAL WORKS	PAGE NO.	AMOUNT
1	Road Works	143	R
2	Drainage	145	R
3	Sewer Reticulation	148	R
	CARRIED TO SITE	SIIMMADV	R
	CARRIED TO SITE	SO IVIIVIAR I	N

					CLUSTER 2			
			KIM					
ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT	
	SECTION 5							
	PROVISIONAL SUMS							
	BILL NO.1							
	PROVISIONAL SUMS FOR SUBCONTRACT WORKS							
	General							
	Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances							
	Provisional sums are for material and equipment supplied and installed complete by firms of specialists							
	General attendance on subcontractors							
	The item "attendance" which follows each provisional sum for subcontractors' work, shall be deemed to cover all the contractor's costs incurred in ensuring all contractual obligations for the works are met.							
	LATERAL SUPPORT, GROUND ANCHORING, PILING & UNDERPINNING, ETC							
KIM 5.1	Provide the sum of R134,000.00 for Lateral Support, Ground Anchoring, Piling & Underpinning, Etc by an approved sub-contractor	Sum	1,00	R	134 000,00	R	134 000,0	
KIM 5.2	Allow for profit & attendance if required	%		R	134 000,00	R		
	ROOF COVERINGS, CLADDINGS ETC							
KIM 5.3	Provide the sum of R812,000.00 for Roof Coverings, Claddings Etc by an approved sub-contractor	Sum	1,00	R	812 000,00	R	812 000,	
KIM 5.4	Allow for profit & attendance if required	%		R	812 000,00	R		
	STRUCTURAL STEELWORK							
KIM 5.5	Provide the sum of R812,000.00 for Structural Steelwork by an approved sub-contractor	Sum	1,00	R	812 000,00	R	812 000,	
KIM 5.6	Allow for profit & attendance if required	%		R	812 000,00	R		
	JOINERY & CABINETRY INSTALLATION							
KIM 5.7	Provide the sum of R134,000.00 for the joinery & cabinetry installation by an approved sub-contractor	Sum	1,00	R	134 000,00	R	134 000,	
KIM 5.8	Allow for profit & attendance if required	%		R	134 000,00	R		

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ROLLER SHUTTERS & HANGAR DOORS						
KIM	5.9	Provide the sum of R270,000.00 for Roller Shutters & Hangar Doors by an approved sub-contractor	Sum	1,00	R	270 000,00	R	270 000,00
KIM	5.10	Allow for profit & attendance if required	%		R	270 000,00	R	
		GENERAL GLAZING						
KIM	5.11	Provide the sum of R134,000.00 for General Glazing by an approved sub- contractor	Sum	1,00	R	134 000,00	R	134 000,00
KIM	5.12	Allow for profit & attendance if required	%		R	134 000,00	R	
		ALUMINIUM FACADE CLADDING, SHOPFRONTS, WINDOWS AND DOORS						
KIM	5.13	Provide the sum of R270,000.00 for aluminium façade cladding, shopfronts, window and door installation by an approved sub-contractor	Sum	1,00	R	270 000,00	R	270 000,00
KIM	5.14	Allow for profit & attendance if required	%		R	270 000,00	R	
		SIGNAGE						
KIM	5.15	Provide the sum of R134,000.00 for corporate and directional signage by an approved subcontractor	Sum	1,00	R	134 000,00	R	134 000,00
KIM	5.16	Allow for profit & attendance if required	%		R	134 000,00	R	
		BLINDS, FURNITURE & FITTINGS						
KIM	5.17	Provide the sum of R202,000.00 for blinds, furniture and fittings by an approved subcontractor	Sum	1,00	R	202 000,00	R	202 000,00
KIM	5.18	Allow for profit & attendance if required	%		R	202 000,00	R	
		TENANT TEMPORARY RELOCATION & REINSTATEMENT						
KIM	5.19	Provide the sum of R 134,000.00 for tenant temporary relocation and reinstatement works by an approved subcontractor	Sum	1,00	R	134 000,00	R	134 000,00
KIM	5.20	Allow for profit & attendance if required	%		R	134 000,00	R	
		ASBESTOS REMOVAL						
KIM	5.21	Provide the sum of R134,000.00 for the Removal & Safe Disposal of Asbestos by an approved subcontractor	Sum	1,00	R	134 000,00	R	134 000,00
KIM	5.22	Allow for profit & attendance if required	%		R	134 000,00	R	
		GUTTERS & RAINWATER DISPOSAL SYSTEMS						
KIM	5.23	Provide the sum of R270,000.00 for Gutters & Rainwater Disposal Systems by an approved subcontractor	Sum	1,00	R	270 000,00	R	270 000,00
KIM	5.24	Allow for profit & attendance if required	%		R	270 000,00	R	

ITEN	I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ELECTRICAL, ELECTRONIC AND MECHANICAL INSTALLATIONS						
		GENERAL ELECTRICAL INSTALLATIONS						
KIM	5.25	Provide the sum of R812,000.0 for General Electical Installations by an approved subcontractor	Prov	1,00	R	812 000,00	R	812 000,0
KIM	5.26	Allow for profit & attendance if required	%		R	812 000,00	R	
		SUB - STATION INSTALLATIONS						
KIM	5.27	Provide the sum of R134,000.00 for Sub Station Installations by an approved subcontractor	Sum	1,00	R	134 000,00	R	134 000,0
KIM	5.28	Allow for profit & attendance if required	%		R	134 000,00	R	
		UPS INSTALLATIONS						
KIM	5.29	Provide the sum of R134,000.00 for UPS Installations by an approved subcontractor	Sum	1,00	R	134 000,00	R	134 000,0
KIM	5.30	Allow for profit & attendance if required	%		R	134 000,00	R	
		GENERATOR INSTALLATION						
KIM	5.31	Provide the sum of R134,000.00 for the Generator Installation by an approved sub-contractor	Sum	1,00	R	134 000,00	R	134 000,0
KIM	5.32	Allow for profit & attendance if required	%		R	134 000,00	R	
		FIRE DETECTION & FIRE STOPPING INSTALLATION						
KIM	5.33	Provide the sum of R202,000.00 for the Fire Detection & Fire Stopping Installation by an approved sub-contractor	Sum	1,00	R	202 000,00	R	202 000,0
KIM	5.34	Allow for profit & attendance if required	%		R	202 000,00	R	
		ACCESS CONTROL						
KIM	5.35	Provide the sum of R66,000.00 for the Access Control System installation by an approved sub-contractor	Sum	1,00	R	66 000,00	R	66 000,0
KIM	5.36	Allow for profit & attendance if required	%		R	66 000,00	R	
		CCTV INSTALLATION						
KIM	5.37	Provide the sum of R66,000.00 for CCTV installation by an approved sub- contractor	Sum	1,00	R	66 000,00	R	66 000,0
KIM	5.38	Allow for profit & attendance if required	%		R	66 000,00	R	
		INTERNET AND TELECOMMUNICATION INSTALLATION						
IZIN 4	F 20	Describe the same of D424 000 00 for the interrest and	Court	1.00		124 000 00	-	124,000 (
KIM	5.39	Provide the sum of R134,000.00 for the internet and telecommunication installation by an approved subcontractor	Sum	1,00	R	134 000,00	К	134 000,0
KIM	5.40	Allow for profit & attendance if required	%		R	134 000,00	R	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		GENERAL MECHANICAL INSTALLATION						
KIM	5.41	Provide the sum of R812,000.00 for General Mechanical Installations by an approved subcontractor	Prov	1,00	R	812 000,00	R	812 000,00
KIM	5.42	Allow for profit & attendance if required	%		R	812 000,00	R	
		FIRE PROTECTION INSTALLATIONS						
KIM	5.43	Provide the sum of R134,000.00 for Fire Protection Installations by an approved subcontractor	Sum	1,00	R	134 000,00	R	134 000,00
KIM	5.44	Allow for profit & attendance if required	%		R	134 000,00	R	
		SPRINKLER INSTALLATIONS						
KIM	5.45	Provide the sum of R270,000.00 for Sprinkler Installations by an approved subcontractor	Sum	1,00	R	270 000,00	R	270 000,00
KIM	5.46	Allow for profit & attendance if required	%		R	270 000,00	R	
		GAS SUPPRESSION INSTALLATIONS						
KIM	5.47	Provide the sum of R270,000.00 for Gas Suppression Installations by an approved subcontractor	Sum	1,00	R	270 000,00	R	270 000,00
KIM	5.48	Allow for profit & attendance if required	%		R	270 000,00	R	
		SMOKE EXTRACTION INSTALLATIONS						
KIM	5.49	Provide the sum of R270,000.00 for Smoke Extraction Installations by an approved subcontractor	Sum	1,00	R	270 000,00	R	270 000,00
KIM	5.50	Allow for profit & attendance if required	%		R	270 000,00	R	
		HVAC INSTALLATION						
KIM	5.51	Provide the sum of R812,000.00 for the HVAC installation by an approved sub-contractor	Sum	1,00	R	812 000,00	R	812 000,00
KIM	5.52	Allow for profit & attendance if required	%		R	812 000,00	R	
		LANDSCAPING WORKS						
KIM	5.53	Provide the sum of R270,000.00 for Landscaping Works by an approved sub-contractor	Sum	1,00	R	270 000,00	R	270 000,00
KIM	5.54	Allow for profit & attendance if required	%		R	270 000,00	R	
		SPECIALIST WORKS						
KIM	5.55	Provide the sum of R134,000.00 for Specialist Works by an approved sub-contractor	Prov	1,00	R	134 000,00	R	134 000,00
KIM	5.56	Allow for profit & attendance if required	%		R	134 000,00	R	
		CARRIED TO SITE SUMMARY					R	

		CLUSTER 2			
DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
SECTION 6					
WASTE DISPOSAL, REPURPOSING & RECYCLING					
BILL NO.1					
WASTE DISPOSAL , REPURPOSING & RECYCLING					
CENEDAL					
ULIVERAL					
All waste shall be disposed / recycled / repurposed by permitted disposal / recycling / repurposing facilities and safe disposal /recycling / repurposing certificates shall be provided for all waste removed from site					
The contractor shall maintain and provide records and manifests of waste					
removed from the site and corresponding waybills and disposal, repurposing and recycling certificates issued by permitted waste facilities					
The contractor shall provide copies of permits of disposal / recycling / repurposing facilities for client approval prior to transferring of any waste					
Hazardous Waste					
Provision is made for performing the required waste classifications and subsequent disposal of any hazardous waste streams encountered during construction works					
Recycling / Repurposing Return					
Provision is made for a monetary return to the client for items that are recycled or repurposed. The return is reflected in these bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities have provided a baseline estimate of quantities of materials to be recycled/repurposed and actual quantities will vary based on prevailing site conditions and requirements					
GENERAL WASTE					
General building / building rubble waste to landfill	ton	70,00	R	R	
RECYCLING / REPURPOSING RETURN					
Glass	Kg	250,00	(-R	(-R	
Plastics	Kg	250,00	(-R	(-R	
Steel	Kg	250,00	(-R	(-R	
Stainless Steel	Kg	250,00	(-R	(-R	
Copper	Kg	250,00	(-R	(-R	
Aluminium	Kg	250,00	(-R	(-R	
Brass	Kg	250,00	(-R	(-R	
Iron	Kg	250,00	(-R	(-R	
	SECTION 6 WASTE DISPOSAL , REPURPOSING & RECYCLING BILL NO.1 WASTE DISPOSAL , REPURPOSING & RECYCLING GENERAL All waste shall be disposed / recycled / repurposed by permitted disposal / recycling / repurposing facilities and safe disposal / recycling / repurposing certificates shall be provided for all waste removed from site The contractor shall maintain and provide records and manifests of waste removed from the site and corresponding waybills and disposal, repurposing and recycling certificates issued by permitted waste facilities The contractor shall provide copies of permits of disposal / recycling / repurposing facilities for client approval prior to transferring of any waste Hazardous Waste Provision is made for performing the required waste classifications and subsequent disposal of any hazardous waste streams encountered during construction works Recycling / Repurposing Return Provision is made for a monetary return to the client for items that are recycled or repurposed. The return is reflected in these bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities have provided a baseline estimate of quantities of materials to be recycled/repurposed and actual quantities will vary based on prevailing site conditions and requirements GENERAL WASTE General building / building rubble waste to landfill RECYCLING / REPURPOSING RETURN Glass Steel Stainless Steel Copper Aluminium Brass	SECTION 6 WASTE DISPOSAL , REPURPOSING & RECYCLING BILL NO.1 WASTE DISPOSAL , REPURPOSING & RECYCLING GENERAL All waste shall be disposed / recycled / repurposed by permitted disposal / recycling / repurposing facilities and safe disposal / recycling / repurposing certificates shall be provided for all waste removed from site The contractor shall maintain and provide records and manifests of waste removed from the site and corresponding waybills and disposal, repurposing and recycling certificates issued by permitted waste facilities The contractor shall provide copies of permits of disposal / recycling / repurposing facilities for client approval prior to transferring of any waste Hazardous Waste Provision is made for performing the required waste classifications and subsequent disposal of any hazardous waste streams encountered during construction works Recycling / Repurposing Return Provision is made for a monetary return to the client for items that are recycled or repurposed. The return is reflected in these bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities have provided a baseline estimate of quantities of materials to be recycled/repurposed and actual quantities will vary based on prevailing site conditions and requirements GENERAL WASTE General building / building rubble waste to landfill ton RECYCLING / REPURPOSING RETURN Glass Kg Stainless Steel Kg Aluminium Kg Aluminium Kg	SECTION 6 WASTE DISPOSAL, REPURPOSING & RECYCLING BILL NO.1 WASTE DISPOSAL, REPURPOSING & RECYCLING GENERAL All waste shall be disposed / recycled / repurposed by permitted disposal / recycling / repurposing facilities and safe disposal / recycling / repurposing certificates shall be provided for all waste removed from site The contractor shall maintain and provide records and manifests of waste removed from the site and corresponding waybills and disposal, repurposing and recycling certificates issued by permitted waste facilities The contractor shall provide copies of permits of disposal / recycling / repurposing facilities for client approval prior to transferring of any waste Hazardous Waste Provision is made for performing the required waste classifications and subsequent disposal of any hazardous waste streams encountered during construction works Recycling / Repurposing Return Provision is made for a monetary return to the client for items that are recycled or repurposed. The return is reflected in these bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities of a puntities of a puntiti	SECTION 6 WASTE DISPOSAL , REPURPOSING & RECYCLING BILL NO.1 WASTE DISPOSAL , REPURPOSING & RECYCLING GENERAL All waste shall be disposed / recycled / repurposed by permitted disposal / recycling / repurposing facilities and safe disposal / recycling / repurposing retificates shall be provided for all waste removed from site The contractor shall maintain and provide records and manifests of waste removed from the site and corresponding waybills and disposal, repurposing and recycling certificates issued by permitted waste facilities The contractor shall provide copies of permits of disposal / recycling / repurposing facilities for client approval prior to transferring of any waste Hazardous Waste Provision is made for performing the required waste classifications and subsequent disposal of any hazardous waste streams encountered during construction works Recycling / Repurposing Return Provision is made for a monetary return to the client for items that are recycled or repurposed. The return is reflected in these bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities have provided a baseline estimate of quantities of materials to be recycled/repurposed and actual quantities will vary based on prevailing site conditions and requirements GENERAL WASTE General building / building rubble waste to landfill ton 70,00 R RECYCLING / REPURPOSING RETURN Glass Kg 250,00 (-R Steel Kg 250,00 (-R Steel Kg 250,00 (-R Aluminium Kg 250,00 (-R Aluminium Kg 250,00 (-R	

ITEI	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HAZARDOUS WASTE				
		Provisional Sum				
KIM	6.10 6.11	Hazardous Waste Classification & Disposal Costs	Sum	1,00	R 185 000,00 R 185 000,00	R 185 000,00
KIIVI	6.11	Allow for profit & attendance if required	%		R 185 000,00	К
		CARRIED TO SITE SUMMARY				R
		CARRIED TO SITE SUMIVIARY				N.

	SITE SUMMARY - KIM	DAOE NO	AMOUNT
	SITE SUMMARY - KIM	PAGE NO.	AMOUNT
	PRICE SUMMARY		
1	Preliminaries	83	R
2	Labour Schedule	86	R
3	Building Works	139	R
4	External Works	149	R
5	Provisional Sums	153	R
6	Waste Disposal, Repurposing & Recycling	155	R
	CARRIED TO CLUSTE	R SUMMARY	R

UPINGTON AIRPORT - UPT

				CLUSTER	UPT		
TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
	SECTION 1						
	BILL NO.1 PRELIMINARIES						
	PREAMBLES FOR TRADES						
	The Model Preambles for Trades (2008 edition) as published by the						
	Association of South African Quantity Surveyors shall be deemed to be						
	incorporated in these bills of quantities and no claims arising from brevity						
	of description of items fully described in the said Model Preambles will be						
	entertained Supplementary preambles are incorporated in these bills of quantities to						
	satisfy the requirements of this project. Such supplementary preambles						
	shall take precedence over the provisions of the Model Preambles						
	The contractor's prices for all items throughout these bills of quantities						
	shall take account of and include for all of the obligations, requirements						
	and specifications given in the Model Preambles and in any supplementary preambles						
	supplementary preambles						
	SUPPLEMENTARY PREAMBLES						
	Fixed Charge Items - In general the sum tendered for each fixed charge item will be paid only after the obligations in respect of that item have, in						
	the opinion of the employer/employers agent have been met. Proof of						
	obligations having been met shall be provided to support payment						
	Time Related Items - The amount shall cover all the contractors time						
	related obligations for the entire site irrespective of number of work						
	packages being executed on the site. Payment shall be made for periods						
	of construction works on site. Periods between work packages where there is no construction works will not attract time related charges unless						
	otherwise approved by the employers agent.						
	Value Related Items - The sum tendered for each value related item will only be paid as a proportion of work completed to date on each						
	certificate. The proportion of the amount paid shall be the same as the						
	proportion of work complete to date which is cumulative cost to date						
	divided by the contact sum						
	Provisional amounts included under value related items shall only be						
	utilised on written instruction of the employers agent and will be paid at						
	net cost plus agreed mark up						
	Specialised PPE is defined as PPE other than 'Standard PPE"						
	Specialised FFE is definited as FFE Other trial Stalludiu PPE						
	Standard PPE is defined as:						
	Overalls/Uniforms, Reflector Jackets, Safety Boots, Gloves, Dust Masks,						
	Goggles, Ear Plugs & Hard Hats all of which must be SABS/SANS compliant						
	FIXED CHARGE ITEMS						
JPT 1.1	General Insurance Requirement (Sureties, guarantees, bonds, workman's compensation etc)	Sum	1,00	R	R		
IPT 1.2	Contract works insurance	Sum	1,00	R	R		
7 T 1.2	Contract works insurance	Sum	1,00	N .	R		
JPT 1.3	Public liability insurance	Sum	1,00	R	R		

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
UPT 1.4	Other fixed obligations	Sum	1,00	R		R	
	TIME RELATED ITEMS						
	Operation and Maintenance of Facilities on Site, for duration of						
	construction, except where otherwise stated						
UPT 1.5	Offices (Accommodates up to 5 staff x 1 off)	month	18,00	R		R	
UPT 1.6	Storage sheds (12m x 2.4m x 1 off - Includes Delivery & Removal)	month	18,00	R		R	
UPT 1.7	Ablution & Latrine facilities (5 x Male & 3 x Urinal & 3 x Female & 1 x	month	18,00	R		R	
	Paraplegic & 2 x Standalone Units)						
UPT 1.8	Electric Power & Lighting	month	18,00	R		R	
UPT 1.9	Water supplies, electric power and communications	month	18,00	R		R	
	Supervision						
	Curanica / Faraman						
	Supervisor/Foreman						
UPT 1.10	Site Supervision for the duration of the contract (x 1 Resource)	month	18,00	R		R	
	Safety Management						
UPT 1.11	Provision of full time Construction Site Safety Officer (x 1 Resource)	month	18,00	R		R	
UPT 1.12	Compliance with the Occupational Health and Safety Act (OHSA) and Regulations (including the Construction Regulations, 2014)	month	18,00	R		R	
UPT 1.13	Site Security	month	18,00	R		R	
UPT 1.14	Signage for the site	month	18,00	R		R	
		month					
UPT 1.15	Other time related obligations	month	18,00	R		R	
	VALUE RELATED ITEMS						
UPT 1.16	Contractual requirements	Sum	1,00	R		R	
UPT 1.17	Provision for Specialised PPE Requirements	Prov	1,00	R	35 961,27	R	35 961,27
UPT 1.18	Allow for profit & attendance if required	%	1,00	R	35 961,27		33 301,27
UPT 1.19	Provision for Location and Protection of Existing Underground Services	Prov	1,00	R	21 576,76	R	21 576,76
UPT 1.20	Allow for profit & attendance if required	%	1,00	R	21 576,76	R	
UPT 1.21	Provision for Compliance with Environmental requirements	Prov	1,00	R	21 576,76	R	21 576,76
UPT 1.22	Allow for profit & attendance if required	%	1,00	R	21 576,76		21 3/0,/0
UPT 1.23	Provision for ACSA Training and Airports Permits (ACSA Issue)	Prov	1,00	R	71 922,54	R	71 922,54
UPT 1.24	Allow for profit & attendance if required	%		R	71 922,54		
	Materials & Plant						
UPT 1.25	Provision for Sundry Materials & Plant	Prov	1,00	R	28 974,86	D	20 074 00
UPT 1.25	Allow for profit & attendance if required	%	1,00	R	28 974,86		28 974,86
	Provisional Sum						
		_		_		_	
UPT 1.27 UPT 1.28	Sundry preliminary requirements Allow for profit & attendance if required	Prov %	1,00	R R	28 974,86 28 974,86		28 974,86

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARRIED TO SITE SUMMARY				R

					CLUSTER	R 2
					UPT	T
ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 2				
		BILL NO.1				
		LABOUR SCHEDULE				
		GENERAL				
		GLINE				
		labour rates will be utilised where 'dayworks' are deemed required as specified by the employers agent.				
		Daywork - The employer's Agent may schedule day works where				
		appropriate for various classes of labour. The unit rates for labour shall				
		cover overhead charges & profit, insurances, wage costs, salary costs, use				
		of equipment & tools and transport & Allowances costs.				
		Operating Times				
		Normal Hours: Regarded as between 06:00am and 18:00pm weekdays				
		After Hours: Regarded as between 06:00pm and 06:00am weekdays				
		After Hours: Regarded as between 06:00am and 23:59pm Saturdays				
		Sundays & Public Holidays: Regarded as Between 0:00am and 23:59pm on Sundays and Public Holidays				
		Additional Supervisor / Foreman (General Building)				
UPT	2.1	Normal Hours	Man Hours	60,00	R	R
UPT	2.2	After Hours	Man Hours	30,00	R	R
UPT	2.3	Sundays & Public Holidays	Man Hours	20,00	R	R
		Additional Supervisor / Foreman (Civil Works)				
UPT	2.4	Normal Hours		60,00	R	R
UPT	2.5	After Hours	Hours Man	30,00	R	R
			Hours			
UPT	2.6	Sundays & Public Holidays	Man Hours	20,00	R	R
		Handyman				
UPT	2.7	Normal Hours	Man Hours	60,00	R	R
UPT	2.8	After Hours	Man	30,00	R	R
UPT	2 Q	Sundays & Public Holidays	Hours Man	20,00	R	R
OF I	2.9	Sundays & Fubile Holldays	Hours	20,00	N .	N .
		Brick Layer				
UPT	2.10	Normal Hours		60,00	R	R
UPT	2.11	After Hours	Hours Man	30,00	R	R
	2.12	Sundays & Public Holidays	Hours	20,00	R	R
OF I	2.12	Suridays & Public Hollidays	Hours	20,00		IN .
		Carpenter				
UPT	2.13	Normal Hours	Man Hours	60,00	R	R
UPT	2.14	After Hours		30,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
LIDT	2.45		24	20.00		
UPI	2.15	Sundays & Public Holidays	Man Hours	20,00	R	R
		Tiler				
UPT	2.16	Normal Hours	Man	60,00	R	R
UPT	2.17	After Hours	Hours Man	30,00	R	R
			Hours			
UPI	2.18	Sundays & Public Holidays	Man Hours	20,00	R	R
		Plasterer				R -
UPT	2.19	Normal Hours	Man	60,00	R	R
LIPT	2.20	After Hours	Hours Man	30,00	R	R
			Hours			
UPT	2.21	Sundays & Public Holidays	Man Hours	20,00	R	R
			110010			
UPT	2.22	Painter Normal Hours	Man	60,00	R	R
			Hours			
UPI	2.23	After Hours	Man Hours	30,00	R	R
UPT	2.24	Sundays & Public Holidays		20,00	R	R
			Hours			
LIDT	2.25	Welder	N.4	60.00		
UPI	2.25	Normal Hours	Man Hours	60,00	R	R
UPT	2.26	After Hours	Man Hours	30,00	R	R
UPT	2.27	Sundays & Public Holidays		20,00	R	R
			Hours			
		General Assistant				
UPT	2.28	Normal Hours	Man Hours	350,00	R	R
UPT	2.29	After Hours	Man	30,00	R	R
UPT	2.30	Sundays & Public Holidays	Hours Man	20,00	R	R
			Hours			
		Shutterhand / Formwork Specialist Installer				
UPT	2.31	Normal Hours	Man Hours	60,00	R	R
UPT	2.32	After Hours	Man	30,00	R	R
UPT	2.33	Sundays & Public Holidays	Hours Man	20,00	R	R
<u> </u>		Sundays & Labite Holladys	Hours	_0,00	.,	.,
		Waterproofing Technician / Specialist Installer				
UPT	2.34	Normal Hours		60,00	R	R
UPT	2.35	After Hours	Hours Man	30,00	R	R
			Hours			
UP1	2.36	Sundays & Public Holidays	Man Hours	20,00	R	R
		Coiling 9. Partitions Specialist Installer				
UPT	2.37	Ceiling & Partitions Specialist Installer Normal Hours	Man	60,00	R	R
IIDT	2.38	After Hours	Hours Man	30,00	R	R
UF 1	2.30	Aiter nouis	Hours	30,00		

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		3330000			=	7
UPT	2.39	Sundays & Public Holidays	Man Hours	20,00	R	R
		Flooring Specialist Installer (Vinyl & Epoxy Floors)				
UPT		Normal Hours	Man Hours	60,00	R	R
UPT	2.41	After Hours	Man Hours	30,00	R	R
UPT	2.42	Sundays & Public Holidays	Man Hours	20,00	R	R
		Flooring Specialist Installer (Carpets)				
UPT	2.43	Normal Hours	Man Hours	60,00	R	R
UPT	2.44	After Hours	Man Hours	30,00	R	R
UPT	2.45	Sundays & Public Holidays	Man Hours	20,00	R	R
UPT	2.46	Flooring Specialist Installer (Timber / Composite Floors) Normal Hours	Man Hours	60,00	R	R
UPT	2.47	After Hours	Man Hours	30,00	R	R
UPT	2.48	Sundays & Public Holidays	Man Hours	20,00	R	R
		Plumber				
UPT	2.49	Normal Hours	Man Hours	60,00	R	R
UPT	2.50	After Hours	Man Hours	30,00	R	R
UPT	2.51	Sundays & Public Holidays	Man Hours	20,00	R	R
		CARRIED TO SITE SUMMARY				R

DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SECTION 2				
BUILDING WORKS				
BILL NO.1				
ALTERATIONS				
PREAMBLES				
The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
SUPPLEMENTARY PREAMBLES				
GENERAL				
In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc to ensure the stability of all structures during alterations work.				
Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephones and other services which may be encountered are not interfered with and notice shall be given to the Employer's Representative if any disconnection or alterations become necessary.				
Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Employer's Representative, be effectively stopped off and any new connections that may be necessary made with the proper tees, junctions pieces, etc. to the satisfaction of the Employer's Representative.				
The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any service.				
MATERIALS FROM ALTERATIONS, ETC				
Old materials to be carted away				
Old materials from alterations, where described as to be "removed" as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site.				
Old materials not te be re-used				
None of old materials are to be used for new work except where specifically described as being "set aside for re-use". The clients agent will indicate materials that are to be 'set asisde for re-use' at the issuing of each work package				
	ALTERATIONS PREAMBLES The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition) SUPPLEMENTARY PREAMBLES GENERAL In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc to ensure the stability of all structures during alterations work. Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephones and other services which may be encountered are not interfered with and notice shall be given to the Employer's Representative if any disconnection or alterations become necessary. 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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Handing over materials				
	Where certain materials or articles from alterations are described as to be "handed over" to the Employer's Representative, such material or articles				
	shall be properly stored by the Contractor, until handing over thereof. The				
	Contractor must obtain an official receipt listing the materials or articles				
	and dates of handing over. If the Contarctor fails to submit the receipt				
	when requested, it shall be deemed that the materials or articles are still				
	in his possession and he will be held liable to the client for the full				
	replacement value thereof, which amount will be deducted from monies due to the Contractor. The clients agent will at issuing of each work				
	package indicate materials that are to be handed over				
	EXISTING BUILDINGS				
	The existing buildings will be in use and occupied during the progress of				
	the contract and the contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the				
	minimum of disturbance.				
	Contractors are also to note that due to the buildings being occupied the repairs and renovations works will be requiered to be executed in a				
	specific order as will be determined by the Employer' Representative.				
	SIZE PERTAINING TO EXISTING WORK				
	The Contractor is advised to check all dimensions affecting the existing				
	buildings on the site and he will be held soley responsible for the				
	correctness of sizes of all new work.				
	All sizes given in relation to the existing work are approximate				
	MAKING GOOD DAMAGED WORK				
	MAKING GOOD DAWAGED WORK				
	The Contractor shall make good in all trades to existing work where				
	damaged or disturbed through the alterations with all necessary new				
	materials to match the existing				
	FORMING NEW OPENINGS OR ALTERING				
	Openings in existing walls				
	Descriptions of forming new openings or altering openings in existing				
	walls shall be deemed to include breaking out for and forming new brick,				
	in situ concrete or prestressed concrete lintels including all reinforcement,				
	formwork, turning pieces, etc, building up jamms or portion of openings				
	as described with brickwork properly toothed and bonded to existing,				
	building cavities of hollow walls solid where necessary and making good finishes all around on both sides and into reveals as described.				
	innishes all around on both sides and into reveals as described.				
	PLIN DING LID ODENINGS				
	BUILDING UP OPENINGS				
	Descriptions of building up existing openings where given in number shall				
	be deemed to include preparing existing surfaces all around, brickwork				
	properly toothed and bonded to existing, wedging up and making good on both sides as described.				
	pour sides as described.				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		PAINTWORK				
		Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere.				
		TEMPORARY BARRIERS, SCREENS, ETC				
		Temporary barriers, screens, etc including removal on completion				
UPT	3.1.1	Temporary hoarding of galvanised diamond mesh covered with shade cloth 2.7m high and removal later	m	40,00	R	R
UPT	3.1.2	Extra over for galvanised mild steel double gate and frame1 511 x 2032mm high	No	2,00	R	R
UPT	3.1.3	Drywall barricade not exceding 2.4m high of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum plasterboard and finished with two coats interior quality PVA emulsion paint, including corners, ends, etc	m	50,00	R	R
UPT	3.1.4	Extra over preceding item for hollow core single door 813 x 2032mm high, including steel frame, two-lever mortice lock, primer and two coats paint	No	2,00	R	R
UPT	3.1.5	Hoarding between concrete floor and ceiling formed of suitable timber framing with 22mm thick shutter board	m2	20,00	R	R
UPT	3.1.6	Metal sheeting hoarding 2m high fixed to steel posts at equal centres including paint to external face of sheets and posts.	m2	20,00	R	R
UPT	3.1.7	Temporary 12mm shutter board protection lining to walls, floors and ceilings including removing after completion and making good to walls, floors and ceilings	m2	40,00	R	R
		REMOVAL OF EXISTING WORK				
		Breaking up and removing mass concrete including reinforcing and carting to approved disposal area within the airport.				
UPT	3.1.8	Stairs with landings, waist, treads, risers, ramps, surface beds, strip footing, reinforced concrete etc	m3	40,00	R	R
		Breaking down and removing existing concrete work including all steel reinforcing, steel corners bolts etc and carting to approved disposal area within the airport.				
UPT	3.1.9	Concrete Columns, beams and slabs not exceeding 3m high	m3	10,00	R	R
UPT	3.1.10	Manholes, bases, strip footings etc not exceeding 1.5m deep	m3	10,00	R	R
UPT	3.1.11	Surface beds not exceeding 100mm thick	m3	10,00	R	R
UPT	3.1.12	Surface beds exceeding 100mm thick and not exceeding 150mm thick	m3	10,00	R	R
		Breaking down and removing brickwork including all steel door frames, window frames etc and carting to approved disposal area within the airport.				
UPT	3.1.13	Half brick wall	m2	50,00	R	R
UPT	3.1.14	One brick wall	m2	50,00	R	R

ITEN	NO NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Taking up and removing vinyl floor coverings, tiles, carpets, etc				
UPT	3.1.15	Ceramic / Porcelain / Marble tiles to floor including preparing floor for new floor covering	m2	180,00	R	R
UPT	3.1.16	Vinyl / plastic / carpet floor covering including preparing floors for new floor coverings	m2	70,00	R	R
		Hacking up and removing off coverings to walls, columns, partitionwalls etc. including preparing surfaces for new finishes				
UPT	3.1.17	Tiles from walls, columns	m2	40,00	R	R
UPT	3.1.18	Wall paper covering from walls, columns etc.	m2	20,00	R	R
		Taking out / off and removing sundry metalwork				
UPT	3.1.19	Stainless steel / mild steel barrier not exceeding 150mm diameter including vertical supports and making good to concrete to recieve new finish	m	50,00	R	R
		Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)				
UPT	3.1.20	Timber single door and steel frame not exceeding 2,5m ²	No	10,00	R	R
UPT	3.1.21	Timber double door and steel frame exceeding 2,5m² and not exceeding 5m²	No	10,00	R	R
UPT	3.1.22	Timber double door and steel frame exceeding 5m ² and not exceeding 7.5m ²	No	10,00	R	R
UPT	3.1.23	Glazed aluminium/steel/timber window not exceeding 2,5m ²	No	10,00	R	R
UPT	3.1.24	Glazed aluminium/steel/timber window exceeding 2,5m² and not exceeding 5m²	No	10,00	R	R
UPT	3.1.25	Glazed aluminium/steel/timber window exceeding 5m² and not exceeding 7.5m²	No	10,00	R	R
		Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
UPT	3.1.26	Suspended ceilings, including suspension grid, hangers, cornices, etc not exceeding 3.0m high	m2	180,00	R	R
UPT	3.1.27	Drywall partitions not exceeding 3.0m high, including doors, glazed borrowed lights, etc	m	110,00	R	R
UPT	3.1.28	Toilet partitioning not exceeding 3.0 m high	m2	40,00	R	R
		Taking out and removing sundry joinery work, fittings, etc				
UPT	3.1.29	Skirtings - various widths	m	70,00	R	R
UPT	3.1.30	Timber sills - various widths	m	20,00	R	R
UPT	3.1.31	Timber wall mounted cupboard - Measured by surface area covered on the wall	m2	20,00	R	R
UPT	3.1.32	Timber floor mounted cupboard - Measured by surface area covered on the floor	m2	20,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT 3.1.33	Timber sink cupboard, including sink and disconnecting & terminating waste pipe - Measured by surface area covered on the floor	m2	10,00	R	R
UPT 3.1.34	Timber/stone counters	m2	20,00	R	R
	Taking out/off and removing sundry metalwork				
UPT 3.1.35	Steel pipe handrails from walls, including brackets, and making good plaster finish	m	20,00	R	R
	Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc				
UPT 3.1.36	Not exceeding 100mm thick Screed from floors	m2	180,00	R	R
UPT 3.1.37	Internal plaster from walls and columns not exceeding 3m high	m2	180,00	R	R
UPT 3.1.38	Internal plaster from ceilings and beams not exceding 3m high	m2	180,00	R	R
UPT 3.1.39	External plaster from walls, columns and beams not exceeding 3m high	m2	180,00	R	R
	POWER WASH ON EXISTING WALLS				
UPT 3.1.40	Power wash on existing walls (Internal and external walls) as per Employer Agent instruction	m2	180,00	R	R
	Taking down and removing				
UPT 3.1.41	Mesh fence with steel posts and droppers	m2	360,00	R	R
UPT 3.1.42	Steel palisade fence with steel posts and droppers	m2	360,00	R	R
UPT 3.1.43	Concrete palisade fence with concrete posts and droppers	m2	360,00	R	R
UPT 3.1.44	Security fence with 45 degree barbed wire overhang with posts and droppers	m2	360,00	R	R
UPT 3.1.45	Half brick boundary or yard wall	m2	90,00	R	R
UPT 3.1.46	One brick boundary or yard wall	m2	90,00	R	R
UPT 3.1.47	Clearvu Fence not exceeding 2,0m high with steel posts	m	90,00	R	R
	Lift and removing pre-cast concrete including bedding, etc				
UPT 3.1.48	60mm Interlocking paving	m2	330,00	R	R
UPT 3.1.49	80mm Interlocking paving	m2	330,00	R	R
UPT 3.1.50	50mm Cement or brick paving	m2	330,00	R	R
UPT 3.1.51	Fig.1 Kerbing	m	50,00	R	R
UPT 3.1.52	Fig.2 Kerbing	m	50,00	R	R
UPT 3.1.53	Fig.3 Kerbing	m	50,00	R	R
	Fig.4 Kerbing	m	50,00	R	R
UPT 3.1.54	rig Kerbing		/		

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT	3.1.56	Fig.6 Kerbing	m	50,00	R	R
UPT	3.1.57	Fig.6 Kerbing - Mountable	m	50,00	R	R
UPT	3.1.58	Fig.7 Kerbing	m	50,00	R	R
UPT	3.1.59	Fig.8 Kerbing	m	50,00	R	R
UPT	3.1.60	Fig.8b Kerbing - Mountable	m	50,00	R	R
UPT	3.1.61	Fig.8c Kerbing - Mountable	m	50,00	R	R
UPT	3.1.62	Fig.12 Kerbing	m	50,00	R	R
UPT	3.1.63	Fig.14 Kerbing	m	50,00	R	R
UPT	3.1.64	Fig.16 Kerbing	m	50,00	R	R
		PREPARATORY WORK TO EXISTING SURFACES				
UPT	3.1.65	Hacking faces of existing concrete columns, beams, etc to receive plaster	m2	20,00	R	R
UPT	3.1.66	Making good defects in existing screeded floors with "an SABS approved self leveling screed"	m2	20,00	R	R
		MAKING GOOD OF FINISHES ETC				
		Making good face brickwork				
		Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar				
		in stretcher bond				
UPT	3.1.67	Ends of half brick walls	m	20,00	R	R
UPT	3.1.68	Ends of one brick walls	m	20,00	R	R
LIDT	3.1.69	Faces of walls where half brick cross walls removed	m	10,00	R	R
UPT	3.1.70	Faces of walls where one brick cross walls removed	m	10,00	R	R
		Making good gypsum plasterboard ceilings and timber brandering				
UPT	3.1.71	Ceilings in patches	m2	10,00	R	R
UPT	3.1.72	Ceilings where half brick walls removed	m	10,00	R	R
	3.1.73	Ceilings where one brick walls removed	m	10,00	R	R
		Making good cement screeds				
	2 1 74			20.00		
	3.1.74	Not exceeding 100mm Thick on floors in patches	m2	20,00	R	R
UPT	3.1.75	Floors where half brick walls removed	m	10,00	R	R
UPT	3.1.76	Floors where one brick walls removed	m	10,00	R	R
		Making good internal cement plaster				
UPT	3.1.77	Walls in patches	m2	10,00	R	R
		Concrete ceilings in patches	m2	10,00	R	R
IIDT	3.1.78	II Oncrete cellings in natches				

ITEM N	NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
UPT 3.1	1.80	Walls where one brick walls removed	m	10,00	R		R	
UPT 3.1	1.81	Concrete ceilings where half brick walls removed	m	10,00	R		R	
UPT 3.1	1.82	Concrete ceilings where one brick walls removed	m	10,00	R		R	
		OPENINGS THROUGH EXISTING WALLS ETC						
_		Breaking out for and forming plain openings through brick walls, including						
		prestressed concrete lintels, making good cement plaster on both sides						
		and into reveals and with 20 MPa concrete thresholds with steel						
- 		trowelled finish and making good.						
UPT 3.1	1.83	Opening through half brick wall	m2	13,00	R		R	
UPT 3.1	1.84	Opening through one brick wall	m2	13,00	R		R	
		Materials & Plant						
UPT 3.1		Provision for Sundry Materials & Plant	Prov	1,00	R	22 500,00		22 500,00
UPT 3.1	1.86	Allow for profit & attendance if required	%		R	22 500,00	R	
		Provisional Sum						
UPT 3.1	1.87	Provision for sundry Alterations Works	Sum	1,00	R	22 500,00	R	22 500,00
UPT 3.1		Allow for profit & attendance if required	%	2,00	R	22 500,00		
		·				•		
								

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.2				
	EARTHWORKS				
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done.				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Continue array of array and array and				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
	Filling				
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
	SITE CLEARANCE ETC				
	Site clearance				
UPT 3.2.1	Stripping average 300mm thick layer of top soil and stockpile on site	m2	290,00	R	R
	EXCAVATION, RISK OF COLLAPSE, FILLING, ETC				
	Excavation in earth not exceeding 2m deep including carting to a stockpile				
UPT 3.2.2	To trenches	m3	70,00	R	R
UPT 3.2.3	To holes	m3	10,00	R	R
UPT 3.2.4	Reduced levels under floors	m3	10,00	R	R
	Excavation in earth exceeding 2m deep but ne. 4m including carting to a stockpile	-	, -		
UPT 3.2.5	To trenches	m3	40,00	R	R
UPT 3.2.6	To holes	m3	10,00	R	R
UPT 3.2.7	Reduced levels under floors	m3	10,00	R	R
	EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER				
	Extra over trench and hole excavations in earth for excavation in				
UPT 3.2.8	EO: Soft rock	m3	10,00	R	R

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT	3.2.9	EO: Hard rock	m3	10,00	R	R
		Extra over all excavations for carting away				
UPT	3.2.10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	60,00	R	R
		Risk of collapse to sides of excavation n.e 2m deep				
UPT	3.2.11	To trenches	m2	60,00	R	R
UPT	3.2.12	To holes	m2	10,00	R	R
		Risk of collapse to sides of excavation exceeding 2m but n.e 3.5m deep				
UPT	3.2.13	To trenches	m2	60,00	R	R
UPT	3.2.14	To holes	m2	20,00	R	R
		Keeping excavations free of water				
UPT	3.2.15	Keeping excavations free of water	Item	1,00	R	R
		FILLING ETC				
		Earth filling obtained from excavations and/or prescribed stock on site compacted to 93 % Mod AASHTO density piles				
UPT	3.2.16	Under foundations, floors, steps, pavings, etc	m3	30,00	R	R
		Earth filling supplied (G5) by contractor compacted to 93% Mod AASHTO density				
UPT	3.2.17	Under floors, steps, paving, foundations, manholes etc	m3	50,00	R	R
		Compaction of surfaces				
UPT	3.2.18	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	140,00	R	R
		Prescribed density tests on filling				
UPT	3.2.19	"Modified AASHTO Density" test	No	1,00	R	R
UPT	3.2.20	"Field Density" test, including "Optimum Moisture Content" (four readings per test)	No	1,00	R	R
		SOIL POISONING				
		Soil insecticide				
UPT	3.2.21	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	70,00	R	R
UPT	3.2.22	To bottoms and sides of trenches etc	m2	70,00	R	R
		Materials & Plant				
	3.2.23	Provision for Sundry Materials & Plant	Prov	1,00	R 4 500,00	
UPT	3.2.24	Allow for profit & attendance if required	%		R 4 500,00	к

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Provisional Sum				
LIDT	3.2.25	Sundry Earthworks	Sum	1,00	R 4 500,00	R 4 500,00
UPT	3.2.26	Allow for profit & attendance if required	%	1,00	R 4 500,00 R 4 500,00	R 4 300,00
		CARRIED TO SECTION SUMMARY				R
		CARRIED TO SECTION SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.3				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	Quality surveyors (2000 carton)				
	SUPPLEMENTARY PREAMBLES				
	Cost of tests				
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the employers agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. PRICES FOR CONCRETE ARE TO INCLUDE FOR ALL TESTS AND CERTIFICATES				
	Formwork				
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before reuse The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
	Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"In order to accommodate the custom in some regions to give formwork to sides of beams, isolated beams, etc separately from formwork to the soffits thereof, the items in respect of formwork to beams, isolated beams, etc are given under the headings of "formwork to sides", "formwork to soffits" and "formwork to sides and soffits"				
	UNREINFORCED CONCRETE				
	15 Mpa / 20mm mass concrete				
JPT 3.3.1	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	10,00	R	R

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		20 Mpa/20mm vibrated reinforced concrete				
UPT	3.3.2	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	10,00	R	R
UPT	3.3.3	To columns	m3	10,00	R	R
UPT	3.3.4	To slabs	m3	10,00	R	R
UPT	3.3.5	To beams	m3	10,00	R	R
UPT	3.3.6	Walls	m3	10,00	R	R
		25 Mpa/20mm vibrated reinforced concrete				
UPT	3.3.7	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	10,00	R	R
UPT	3.3.8	To columns	m3	10,00	R	R
UPT	3.3.9	To slabs	m3	10,00	R	R
UPT	3.3.10	To beams	m3	6,00	R	R
UPT	3.3.11	Walls	m3	6,00	R	R
		30MPa/20mm vibrated reinforced concrete				
UPT	3.3.12	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	5,00	R	R
UPT	3.3.13	To columns	m3	3,00	R	R
UPT	3.3.14	To slabs	m3	3,00	R	R
UPT	3.3.15	To beams	m3	3,00	R	R
UPT	3.3.16	Walls	m3	3,00	R	R
		35 Mpa/20mm vibrated reinforced concrete				
UPT	3.3.17	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	3,00	R	R
UPT	3.3.18	To columns	m3	1,00	R	R
UPT	3.3.19	To slabs	m3	1,00	R	R
UPT	3.3.20	To beams	m3	1,00	R	R
UPT	3.3.21	Walls	m3	1,00	R	R
		40 Mpa/20mm vibrated reinforced concrete				
UPT	3.3.22	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	3,00	R	R
UPT	3.3.23	To columns	m3	1,00	R	R
UPT	3.3.24	To slabs	m3	1,00	R	R
UPT	3.3.25	To beams	m3	1,00	R	R
UPT	3.3.26	Walls	m3	1,00	R	R

ITE	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		TEST CUBES				
UPT	3.3.27	Making and testing 150 x 150 x 150mm concrete strength test cube, testing and providing test results	No	1,00	R	R
		CONCRETE SUNDRIES				
		Finishing top surfaces of concrete smooth with a wood float				
UPT	3.3.28	Surface beds, slabs, beams, walls, paving etc	m2	70,00	R	R
		Finishing top surfaces of concrete smooth with a steel trowel				
LIPT	3.3.29	Surface beds, slabs,beams, walls, paving etc	m2	70,00	R	R
011	0.0.23		1112	70,00	N .	
		Finishing top surfaces of concrete smooth with a power float				
UPT	3.3.30	Surface beds, slabs,beams, walls, paving etc	m2	70,00	R	R
		Scabble existing concrete surfaces, wire brush corroded rebar and apply "Prostruct 616" or similar approved wet to dry concrete adhesive				
UPT	3.3.31	Side of existing concrete	m2	40,00	R	R
		Finishing top surfaces of concrete with and including a nonslip brushed concrete finish including wave-like lines parallel				
UPT	3.3.32	To falls	m2	40,00	R	R
		35MPa non-shrink grout				
UPT	3.3.33	Bedding approximately 30mm thick under 300 x 300mm base plate, including chamfered edges all round	m3	1,00	R	R
		Core through 250mm thick Reinforced concrete walls, slab, etc. with a diamond saw or other mechanical means to form including grouting with "Epidermix 395" liquid grouting compound				
UPT	3.3.34	40mm Diameter opening	No	6,00	R	R
UPT	3.3.35	50mm Diameter opening	No	5,00	R	R
UPT	3.3.36	110mm Diameter opening	No	4,00	R	R
	3.3.37	200mm Diameter opening	No	3,00	R	R
				,		
	3.3.38	250mm Diameter opening	No	2,00	R	R
UPT	3.3.39	350mm Diameter opening	No	1,00	R	R
UPT	3.3.40	450mm Diameter opening	No	1,00	R	R
		Rough formwork to sides				
UPT	3.3.41	Edges , risers, ends and reveals not exceeding 300 mm high	m	70,00	R	R
UPT	3.3.42	To ground beams	m2	40,00	R	R
		Smooth formwork to sides including supports etc.				
דחון	3.3.43	To beams	m ²	30.00	R	R
UP1	3.3.43	TO DEGITIS	m2	30,00	N .	IN .

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
LIDT	3.3.44	To columns	m2	30,00	R	R
		TO COLUMNS	m2	30,00	ĸ	K
UPT	3.3.45	To pits	m2	30,00	R	R
UPT	3.3.46	To ramps	m2	30,00	R	R
UPT	3.3.47	To walls	m2	30,00	R	R
		Smooth formwork to soffits				
UPT	3.3.48	Beams propped up exceeding 3,5m and not exceeding 5m high	m2	40,00	R	R
UPT	3.3.49	Slab propped up exceeding 3,5m and not exceeding 5m high	m2	80,00	R	R
		Formwork to sloping top surfaces (pitch exceeding 35 degrees)				
UPT	3.3.50	Concrete humps/bunding, etc not exceeding 300mm wide	m	14,00	R	R
		ISOLATION JOINTS ETC				
		Joint sealants				
		Expansion joints with softboard between vertical concrete surfaces				
		Expansion joints with softboard between vertical concrete surfaces				
UPT	3.3.51	Silicone sealing compound in 10 - 50 mm wide joints between units including backing strips, bond breaker, primer etc	m	20,00	R	R
UPT	3.3.52	Polysulphide sealing compound in 10 - 50 mm wide joints between units including backing strips, bond breaker, primer etc	m	20,00	R	R
		Saw cut joints				
UPT	3.3.53	50 x 3mm Saw cut joints in top of concrete reamed out to 8mm including 10mm diameter backing cord and 8mm wide x 13mm deep "Dow Corning 813C" silicone sealant or equal approved	m	20,00	R	R
		REINFORCEMENT (PROVISIONAL)				
		Mild tensile steel reinforcement to structural concrete work				
UPT	3.3.54	25mm Diameter bars	ton	0,50	R	R
UPT	3.3.55	20mm Diameter bars	ton	0,50	R	R
UPT	3.3.56	16mm Diameter bars	ton	0,50	R	R
UPT	3.3.57	12mm Diameter bars	ton	0,50	R	R
UPT	3.3.58	10mm Diameter bars	ton	0,50	R	R
UPT	3.3.59	8mm Diameter bars	ton	0,50	R	R
		High tensile steel reinforcement to structural concrete work				
UPT	3.3.60	25mm Diameter bars	ton	0,50	R	R
UPT	3.3.61	20mm Diameter bars	ton	0,50	R	R
UPT	3.3.62	16mm Diameter bars	ton	0,50	R	R
UPT	3.3.63	12mm Diameter bars	ton	0,50	R	R
UPT	3.3.64	10mm Diameter bars	ton	0,50	R	R

ITEN	и NO	DESCRIPTION	UNIT	QUANTITY		RATE	,	AMOUNT
UPT	3.3.65	8mm Diameter bars	ton	0,50	R		R	
		Fabric reinforcement						
UPT	3.3.66	Type 100 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	20,00	R		R	
UPT	3.3.67	Type 193 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	20,00	R		R	
UPT	3.3.68	Type 245fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	20,00	R		R	
UPT	3.3.69	Type 311 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	20,00	R		R	
UPT	3.3.70	Type 395 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	20,00	R		R	
		Materials & Plant						
UPT	3.3.71	Provision for Sundry Materials & Plant	Prov	1,00	R	18 000,00	R	18 000,00
	3.3.72	Allow for profit & attendance if required	%		R	18 000,00		•
		Provisional Sum						
LIPT	3.3.73	Sundry Concrete Formwork & Reinforcement Works	Sum	1,00	R	18 000,00	R	18 000,00
	3.3.74	Allow for profit & attendance if required	%	1,00	R	18 000,00		18 000,00
- 011		Third for profit a determance in required	70			10 000,00		
	il .							
		CARRIED TO SECTION SUMMARY					R	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.4				
		Jan 1911				
		MASONRY				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		BRICKWORK				
		Sizes in descriptions				
		Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
		Hollow walls				
		Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole				
		Face bricks				
		Bricks shall be ordered timeously to obtain uniformity in size and colour				
		Show shall be ordered timeously to obtain almornity in size and colour				
		Pointing				
		Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
		BRICKWORK				
		<u>Brickwork of NFX clay bricks (14 MPa nominal compressive strength) in class II mortar in stretcher bond</u>				
דמון	3.4.1	Piers	m3	3,00	R	R
UFI	5.7.1	1100	1113	3,00	11	
UPT	3.4.2	Half brick walls	m2	70,00	R	R
UPT	3.4.3	One brick walls	m2	90,00	R	R
UPT	3.4.4	Cavity walls - Made up of Two half brick skins	m2	30,00	R	R
UPT	3.4.5	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	30,00	R	R
UPT	3.4.6	280mm Hollow walls of two half brick skins circular on plan with cavities filled in with and including 25MPa/20mm concrete (elsewhere)	m2	30,00	R	R
IIDT	3.4.7	Cutting toothings and bonding new brickwork to existing	m	10,00	R	R
UFI	5. 7.7		111	10,00	11	IX.
		Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond				

II EIV	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT	3.4.8	Piers	m3	3,00	R	R
UPT	3.4.9	Half brick walls	m2	180,00	R	R
UPT	3.4.10	One brick walls	m2	220,00	R	R
UPT	3.4.11	Cavity walls - Made up of two half brick skins	m2	100,00	R	R
UPT	3.4.12	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	90,00	R	R
UPT	3.4.13	280mm Hollow walls of two half brick skins circular on plan with cavities filled in with and including 25MPa/20mm concrete	m2	90,00	R	R
UPT	3.4.14	Cutting toothings and bonding new brickwork to existing	m	70,00	R	R
		FACE BRICKWORK				
		Provide the prime cost of R 9 600.00 per thousand face bricks delivered to site pointed with flush horizontal and vertical joints				
UPT	3.4.15	Extra over brickwork for face brickwork in foundation walls, ramp, etc	m2	30,00	R	R
UPT	3.4.16	Extra over brickwork for face brickwork	m2	44,00	R	R
UPT	3.4.17	Half brick face brick walls in class II mortar pointed on both sides	m2	40,00	R	R
UPT	3.4.18	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	10,00	R	R
UPT	3.4.19	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm external diameter	No	10,00	R	R
		Steel bar reinforcement				
UPT	3.4.20	8mm Diameter mild steel bars built in horizontally	ton	0,50	R	R
		Prestressed precast lintels				
UPT	3.4.21	110 x 75mm Lintels in lengths not exceeding 3m	m	40,00	R	R
UPT	3.4.22	110 x 75mm Lintels exceeding 3,0m but not exceeding 4,5m	m	20,00	R	R
		Fabric Reinforcement				
UPT	3.4.23	75mm Galvanised brickforce suitable for half brick walls	m	220,00	R	R
UPT	3.4.24	150mm Galvanised brickforce suitable for one brick walls	m	220,00	R	R
		Galvanised hoop iron cramps, ties, etc				
UPT	3.4.25	30 x 1,6mm Roof tie 1500mm long with one end fixed to timber and other end built into brickwork	No	10,00	R	R
		Bagging of 1:3 cement and sand mixture				
UPT	3.4.26	On brick walls	m2	40,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		Materials & Plant						
HDT	3.4.27	Provision for Sundry Materials & Plant	Prov	1,00	R	18 000,00	P	18 000,00
	3.4.28	Allow for profit & attendance if required	%	1,00	R	18 000,00	R	18 000,00
		Provisional Sum						
UPT	3.4.29	Sundry Masonry Works	Sum	1,00	R	18 000,00	R	18 000,00
	3.4.30	Allow for profit & attendance if required	%		R	18 000,00	R	
		CARRIED TO SECTION SUMMAR	Y				R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.5				
	DILL NO.3				
	WATERPROOFING				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Waterproofing				
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course				
UPT 3.5.1	In walls	m2	70,00	R	R
	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
UPT 3.5.2	Under surface beds, etc	m2	220,00	R	R
	Three coats paint sealer "plascon wallseal" or equal approved without membrane				
UPT 3.5.3	On parapet walls	m2	70,00	R	R
	Two coats "Brixeal" or equal approved bitumen emulsion waterproof coating				
UPT 3.5.4	On walls	m2	70,00	R	R
01 1 3.3.4	On waits	1112	, 0,00	11	
	JOINT SEALANTS ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
UPT 3.5.5	In joints between window or door frames and concrete or brickwork	m	10,00	R	R
	WATERPROOFING TO ROOFS ETC				
	TORCH-ON WATERPROOFING				
	4mm Thick "Derbigum SP4" or similar approved waterproofing membrane including laps, turn-ups, turndowns, etc and preparing and priming concrete or screeded surfaces laid in accordance with the manufacturers instruction				
UPT 3.5.6	On flat roofs / floors.	m2	150,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT 3.5.7	On turn-ups and turn-downs exceeding 300mm girth	m2	10,00	R	R
UPT 3.5.8	On sloping roofs	m2	140,00	R	R
UPT 3.5.9	On tops and sides of inverted beams	m2	30,00	R	R
UPT 3.5.10	On bottoms and sides of floor ducts, channels, etc	m2	30,00	R	R
UPT 3.5.11	On bottoms and sides of box gutters	m2	30,00	R	R
UPT 3.5.12	On bottoms and sides of plant boxes	m2	10,00	R	R
UPT 3.5.13	Sealing edges to brickwork or concrete	m	10,00	R	R
UPT 3.5.14	Sealing edges to brickwork or concrete including trowelled mastic bead	m	10,00	R	R
UPT 3.5.15	Additional membrane 300mm girth at internal and external angles	m	10,00	R	R
UPT 3.5.16	Dressing and sealing around pipe not exceeding 200mm external diameter, including additional membrane, gussets, collars, etc	No	10,00	R	R
UPT 3.5.17	On internal surfaces of 300 x 300 x 300mm deep sump, catchpit, etc	No	6,00	R	R
UPT 3.5.18	On concrete flat roofs including all turn-ups and turndowns and sealing edges where required.	m2	70,00	R	R
	PROTECTIVE STONE DRESSING				
	19mm Crushed stone dressing evenly spread with larger stones around outlets				
UPT 3.5.19	25mm Thick on waterproofing to flat roofs	m2	70,00	R	R
	PROTECTIVE ROOFING PAINT				
	Two coats "Silvakote" or similar approved bituminous aluminium paint				
UPT 3.5.20	On waterproofing to roofs	m2	70,00	R	R
UPT 3.5.21	On inside of existing box gutters	m2	70,00	R	R
	PROTECTIVE ROOFING SHEETING				
	Type 40 bituminous fibreglass felt laid loose				
UPT 3.5.22	On waterproofing to roofs	m2	17,00	R	R
UF 1 3.3.22		IIIZ	17,00	IX.	n
	WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
UPT 3.5.23	6 x 10mm In saw cut joints in floors	m	10,00	R	R
UPT 3.5.24	6 x 10mm In expansion joints in tiled walls etc	m	10,00	R	R
	10 x 15mm In expansion joints in tiled floors etc	m	10,00	R	R
UPT 3.5.25					

ITEM N	10	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
UPT 3.5	5.27	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	10,00	R		R	
		Mastic sealing compound including backing cord, bond breaker, primer, etc						
UPT 3.5	5.28	6 x 10mm In saw cut joints in floors	m	10,00	R		R	
UPT 3.5	5.29	6 x 10mm In expansion joints in tiled walls etc	m	10,00	R		R	
UPT 3.5	5.30	10 x 15mm In expansion joints in tiled floors etc	m	10,00	R		R	
UPT 3.5	5.31	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	10,00	R		R	
UPT 3.5	5.32	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	10,00	R		R	
		Materials & Plant						
UPT 3.5	5.33	Provision for Sundry Materials & Plant	Prov	1,00	R	9 000,00	R	9 000,00
UPT 3.5		Allow for profit & attendance if required	%		R	9 000,00	R	
		Provisional Sum						
UPT 3.5		Sundry Waterproofing Works	Sum	1,00	R	9 000,00		9 000,00
UPT 3.5	5.36	Allow for profit & attendance if required	%		R	9 000,00	R	
		CARRIED TO SECTION SUMMARY					R	

ITEM	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.6				
		DIEL NO.				
		CARPENTRY & JOINERY				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		Description				
		The term "planted on" shall mean the countersunk screwing of one timber member to another with the heads of screws sunk and pelleted.				
		The term "plugged" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted				
		Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing				
		Descriptions of floors, ceilings, joinery, etc shall be deemed to include for all square cutting				
		Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.				
		Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc				
		DOORS, ETC				
		Semi-solid flush panel doors with commercial veneer both sides suitable for painting and hung to steel, aluminium, timber frames				
UPT	3.6.1	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	10,00	R	R
UPT	3.6.2	Provide the prime cost of R 3 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	10,00	R	R
		40mm Thick semi-solid flush panel doors with sapele hardwood veneer both sides suitable for varnish				
UPT	3.6.3	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	10,00	R	R
UPT	3.6.4	Provide the prime cost of R 3 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	10,00	R	R
		44mm Thick solid door suitable for varnish or painting and hung to steel, aluminium or timber frames				
UPT	3.6.5	Provide the prime cost of R 3000.00 per door leaf & hinges for single door openings	No	15,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT	3.6.6	Provide the prime cost of R 6 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	15,00	R	R
		"Bitcon Industries" or similar approved Class A 1 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames				
UPT	3.6.7	Provide the prime cost of R 5000.00 for Class A fire door for single door opening including single rebated pressed steel frame for 115mm brick wall, hinges and preparing frame for door closer and lock	No	8,00	R	R
UPT	3.6.8	Provide the prime cost of R 8 500.00 for Class A fire double door for double door opening including double rebated pressed steel frame for 230mm brick wall, hinges and preparing frame for door closer and lock	No	10,00	R	R
		"Bitcon Industries" or similar approved Class B 2 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames				
UPT	3.6.9	Provide the prime cost of R 6 500.00 for Class B fire door for single door opening including single rebated pressed steel frame for 115mm brick wall, hinges and preparing frame for door closer and lock	No	10,00	R	R
UPT	3.6.10	Provide the prime cost of R 12 500.00 for Class B fire double door for double door opening including double rebated pressed steel frame for 230mm brick wall, hinges and preparing frame for door closer and lock	No	10,00	R	R
		Materials & Plant				
UPT	3.6.11	Provision for Sundry Materials & Plant	Prov	1,00	R 18 000,00	R 18 000,00
UPT	3.6.12	Allow for profit & attendance if required Provisional Sum	%		R 18 000,00	R
LIPT	3.6.13	Sundry Carpentry & Joinery Works	Sum	1,00	R 18 000,00	R 18 000,00
	3.6.14	Allow for profit & attendance if required	%	1,00	R 18 000,00	
						_
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.7				
	CEILINGS, PARTITIONS & ACCESS FLOORING				
	PREAMBLES				
	THE WINDLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	SUPPLEINENTARY PREAINDLES				
	Fixing				
_	Items described as "nailed" shall be deemed to be fixed with hardened				
	steel nails or pins, or to be shot-pinned, to bricwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to				
	fibre, plastic or metal plugs at not exceeding 500mm cetres, and where described as "bolted", the bolts have been given elsewhere.				
	Ceilings				
	Unless otherwise described ceilings shall be deemed to be horizontal				
	Bulkheads				
	Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. The purpose is either to conceal services or to create architectural features				
	Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings				
	Unless otherwise described bulkheads shall be deemed to be horizontal along the length				
	Steel components				
	All steel components for ceilings, partitions, etc are to be galvinised in accordance with SANS 121				
	SUSPENDED CEILINGS				
	9mm "Rhino" gypsum plasterboard with taped and skimmed joints				
JPT 3.7.1	Ceilings installed using propriety framing system all according to manufacturers specifications	m2	81,00	R	R
JPT 3.7.2	Vertical ceilings installed using propriety framing system all according to manufacturers specifications	m2	70,00	R	R
JPT 3.7.3	Horizontal bulkheads installed using propriety framing system all according to manufacturers specifications	m2	70,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	600 x 1200mm panels on pre painted (pre-coated) suspension system including main and cross tees necessary hangers, grids, etc				
	Provide the prime cost of R 400.00/m2 for suspended ceiling system				
JPT 3.7.4	Ceilings suspended below soffits	m2	90,00	R	R
UPT 3.7.5	Horizontal bulkheads suspended below concrete soffits	m2	70,00	R	R
UPT 3.7.6	Sloping bulkheads suspended below concrete soffits	m2	70,00	R	R
UPT 3.7.7	Extra over ceiling for opening for sprinkler head	No	10,00	R	R
UPT 3.7.8	Extra over ceiling for opening for down lighter	No	10,00	R	R
UPT 3.7.9	Extra over ceiling for 600 x 1 200mm light fitting	No	10,00	R	R
	600mm x 600mm panels on pre painted (pre-coated) exposed tee suspension system				
	Provide the prime cost of R 400.00/m2 for suspended ceiling system				
UPT 3.7.10	Ceilings suspended below soffits	m2	90,00	R	R
UPT 3.7.11	Horizontal bulkheads suspended below concrete soffits	m2	70,00	R	R
UPT 3.7.12	Sloping bulkheads suspended below concrete soffits	m2	70,00	R	R
UPT 3.7.13	Extra over ceiling for opening for sprinkler head	No	10,00	R	R
UPT 3.7.14	Extra over ceiling for opening for down lighter	No	10,00	R	R
UPT 3.7.15	Extra over ceiling for 600 x 600mm light fitting	No	10,00	R	R
	Cornices to suspended ceilings				
	Provide the prime cost of R 80.00 per meter for cornices				
UPT 3.7.16	Pre-painted / coated cornices plugged	m	40,00	R	R
	Shadowline to suspended ceilings				
	Provide the prime cost of R 80.00 per meter for shadowline trim				
UPT 3.7.17	Pre-painted / coated shadowline trim fixed	m	40,00	R	R
	Insulation				
UPT 3.7.18	Isotherm 100mm thick polyester thermal ceiling insulation laid on ceilings (measured nett)	m2	140,00	R	R
	PARTITIONS				
	"76mm wide Rhino-Drywall System " steel stud partitioning with "12mm thick Rhino Wall board" on both sides including skirtings and top track all as per manufacturers specifications				
UPT 3.7.19	Partitioning up to 2 600mm high with bottom and top tracks plugged	m2	100,00	R	R
UPT 3.7.20	Partitioning up to 2 900mm high with bottom and top tracks plugged	m2	90,00	R	R
UPT 3.7.21	Partitioning up to 3 500mm high with bottom and top tracks plugged		70,00	R	
UP 1 3.7.21	raititioning up to 3 Southin nigh with bottom and top tracks plugged	m2	70,00	K	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		Provide the prime cost of R 2000.00 per door leaf & hinges for single door						
		<u>openings</u>						
UPT	3.7.22	Extra over partitioning for Single Door hung to pressed steel door frame including additional studding, trimming, etc.	No	10,00	R		R	
		Provide the prime cost of R 3 500.00 for double door openings						
UPT	3.7.23	Extra over partitioning for Double Door hung to pressed steel door frame including additional studding, trimming, etc.	No	5,00	R		R	
		Materials & Plant						
UPT	3.7.24	Provision for Sundry Materials & Plant	Prov	1,00	R	18 000,00	R	18 000,00
	3.7.25	Allow for profit & attendance if required	%	,	R	18 000,00		<u>, </u>
		Provisional Sum						
LIDT	3.7.26	Sundry Ceilings, Partitions & Access Flooring Works	Comme	1.00	-	18 000,00	D.	10.000.00
	3.7.26	Allow for profit & attendance if required	Sum %	1,00	R R	18 000,00		18 000,00
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.8				
	FLOOR COVERINGS, WALL LININGS, ETC				
	Table Covering Systems Entitles (1975)				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Fixing				
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc				
	Surface preparation, priming, curing, cleaning etc				
	Surface preparation, prinning, curing, cleaning etc				
	Descriptions of the items below are deemed to include all necessary preparation, priming, mixing, curing, cleaning etc as prescribed by the manufacturers of the various products				
	FLOOR COVERINGS				
	Provide the prime cost amount of R500.00 per m2 for supply and delivery				
	of vinyl floor finishes laid with approved adhesive on screeds in accordance with manufacturers instructions				
UPT 3.8.1	On floors	m2	140,00	R	R
UPT 3.8.2	On treads and risers of stairs	m2	40,00	R	R
	High traffic epoxy floor paint 2.5 to 3mm thick as per specialists specifications				
UPT 3.8.3	On floors	m2	140,00	R	R
	Provide the prime cost amount of R500.00 per m2 for supply and delivery of carpet tiles laid with approved adhesive in accordance with manufacturers instructions				
UPT 3.8.4	On floors	m2	140,00	R	R
UPT 3.8.5	On treads and risers of stairs	m2	40,00	R	R
	Materials & Plant				
UPT 3.8.6	Provision for Sundry Materials & Plant	Prov	1,00	R 9 000,0	0 R 9 000
UPT 3.8.7	Allow for profit & attendance if required	%	1,00	R 9 000,0	
	Provisional Sum				
UPT 3.8.8	Sundry Floor Coverings Wall Linings etc Works	Sum	1.00	R 9 000,0	n p 0.000
UPT 3.8.9	Allow for profit & attendance if required	% %	1,00	R 9 000,0	
	CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.9				
	IRONMONGERY				
	PREAMBLES				
	INCAMPLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	CURN FLATING BY BREALEN FO				
	SUPPLEMENTARY PREAMBLES				
	General				
	General				
	Corrosion proof ironmongery shall be provided as far as possible and shall				
	be fitted by professional carpenter				
	Proprietary items				
	Where applicable the manufacturers' names or product catalogue titles				
	are given in sub-heading preceding the items				
	are given in sub-neading preceding the items				
	Prices are to be based on the specific products/articles specified. If				
	tenders wish to offer alternative products/articles for certain items, these				
	items are to be clearly marked and the alternative specification given with				
	supporting brochures etc clarifying the features of the products/articles				
	offered.				
	On request returnable samples are to be provided to the employer's				
	representative for consideration.				
	representative for consideration.				
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by				
	suffixes in accordance with the following list:				
	BS Satin bronze lacquered				
	CH Chromium plated				
	SC Satin chromium plated SE Silver enamelled				
	GE Grey enamelled				
	AN Anodised natural				
	AS Anodised silver				
	AB Anodised bronze				
	AG Anodised gold				
	ABL Anodised black				
	PB Polished brass				
	PL Polished and lacquered				
	PT Epoxy coated				
	SD Sanded				
	LOCKS, ETC				
	Provide the prime cost amount of R750.00 each for cylinder locksets				
	installed complete				
	instancu complete				
UPT 3.9.1	On single doors	No	60,00	R	R
			·		
UPT 3.9.2	On double doors			R	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HINGES, BOLTS, ETC				
UPT	3.9.3	Hinges Provide the prime cost amount of R350.00 for 100 x 75mm butt hinges	No	110,00	R	R
		(per pair) installed complete		110,00		
		PUSH PLATES AND KICKING PLATES				
		Push plates, kick plates etc				
UPT	3.9.4	Provide the prime cost amount of R750.00 each for Push Plates & Kick Plates installed complete	No	30,00	R	R
		DOOR CLOSERS				
		Door Closers				
UPT	3.9.5	Provide the prime cost amount of R3000.00 each for door closers installed complete	No	60,00	R	R
		Panic Bolts etc				
UPT	3.9.6	Provide the prime cost amount of R2500.00 each for panic bolts for single doors installed complete	No	9,00	R	R
UPT	3.9.7	Provide the prime cost amount of R5500.00 each for panic bolts for double doors installed complete	No	8,00	R	R
		HANDLES				
		Handles etc				
UPT	3.9.8	Provide the prime cost amount of R1000.00 each for door handles installed complete	No	50,00	R	R
		CATCHES, CABIN HOOKS, ETC				
		Cabin Hooks etc				
UPT	3.9.9	Provide the prime cost amount of R300.00 each for cabin & coat hooks installed complete	No	10,00	R	R
		BATHROOM FITTINGS				
		Toilet Roll Holder				
UPT	3.9.10	Provide the prime cost amount of R1000.00 each for toilet roll holder plugged to brickwork.	No	10,00	R	R
		Soap Dispenser				
UPT	3.9.11	Provide the prime cost amount of R1000.00 each for soap dispenser	No	10,00	R	R
		plugged to brickwork.		-,		
		Stainless Steel Grab Rail				
UPT	3.9.12	Provide the prime cost amount of R1000.00 each for stainless steel grab rails plugged to brickwork.	No	10,00	R	R
		<u>SUNDRIES</u>				
		"Solid"				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
UPT	3.9.13	Door stop (CZ8731CH) fixed with counter sunk-sunk bolt into anchor bolt	No	20,00	R		R	
		Materials & Plant						
	3.9.14 3.9.15	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	13 500,00 13 500,00	R R	13 500,00
		Provisional Sum						
	3.9.16	Sundry Floor Ironmongery Works	Sum	1,00	R	13 500,00		13 500,00
UPT	3.9.17	Allow for profit & attendance if required	%		R	13 500,00	R	
		CARRIED TO CECTION CONTROL					-	
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.10				
	METALWORK				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Descriptions of bolts, anchors, etc				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of boilts shall be deemed to include fluts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, wahers and mortices in brickwork or concrete				
	Items described as "holed for bolt(s)" shall be deemed to exclude the				
	bolts unless otherwise described				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm cetres				
	DOOR FRAMES, DOORS, ETC				
	Galvinised pressed steel door frames				
	darminoca presseu steer abor mantes				
	1,6mm Thick single rebated heavy duty frame for half brick wall complete with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc				
UPT 3.10.1	Frame for door 813 x 2032mm high with three 100mm steel hinges per leaf	No	70,00	R	R
UPT 3.10.2	Frame for door 1613 x 2032mm high with three 100mm steel hinges per leaf	No	40,00	R	R
	1,6mm Thick single rebated heavy duty frame for one brick wall complete with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc				
UPT 3.10.3	Frame for door 813 x 2032mm high with three 100mm steel hinges per leaf	No	70,00	R	R
UPT 3.10.4	Frame for door 1613 x 2032mm high with three 100mm steel hinges per leaf	No	40,00	R	R
	Materials & Plant				
UPT 3.10.5 UPT 3.10.6	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 115 500,00 R 115 500,00	
	Provisional Sum				
UPT 3.10.7	Sundry Metalworks	Sum	1,00	R 115 500,00	· · · · · · · · · · · · · · · · · · ·
UPT 3.10.8	Mark up provision on sundry Metalorks	%		R 115 500,00	К

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARRIED TO CECTION SUCCESSION				B
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	PILL NO 11				
	BILL NO.11				
	PLASTERING				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Granolithic				
	Method				
	The marked in the considerable to the contract of the contract				
	The method to be used shall be either the monolithic method or the				
	bonded method				
	Preparation				
	For granolithic applied monolithically, the concrete floor shall be swept				
	clean after bleeding of the concrete has ceased and the slab has begun to				
	stiffen; any remaining bleed water shall be removed and the granolithic				
	applied immediately thereafter. For granolithic to be bonded to the floor				
	slab after it has hardened, the slab surface shall be hacked (preferably by				
	mechanical means) until all laitance, dirt, oil, etc is dislodged and swept				
	clean of all loose matter. The slab shall then be wetted and kept damp for				
	at least six hours before applying the granolithic				
	Mix				
	Granolithic shall attain a compressive strength of at least 41MPa. The				
	coarse aggregate shall comply with SANS 1083 and shall generally be				
	capable of passing a 10mm mesh sieve. Where the thickness of the				
	granolithic exceeds 25mm, the size of the coarse aggregate shall be				
	increased to the maximum size compatible with the thickness of the				
	granolithic				
	Barrala				
	Panels				
	Granolithic shall be laid in panels not exceeding 14m² for monolithic				
	finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m²				
	for all external granolithic. Wherever possible, panels shall be square but				
	at no time should the length of the panel exceed 1,5 times its width				
	at no time should the length of the panel exceed 1,5 times its width				
	Where possible joints between panels shall be positioned over joints in				
	the floor slab and shall be at least 3mm wide through the full thickness of				
	the finish, separated by strips of wood or fibreboard and finished with V-				
	joints				
	Laying				
	Monolithic granolithic shall be applied to the partially set slab and				
	thoroughly compacted and lightly wood floated to the required levels				
	and subject to the required levels				
	·	i	i l		

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Bonded granolithic shall be applied to the slab after applying a 1:1 sand- and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be throughly compacted and lightly wood floated to the required levels				
		After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated				
		Curing, seasoning and protection				
		Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying				
		Colour				
		Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour				
		CEMENT SCREED				
		Preparation				
		Screed to be steel trowelled, no dry mix allowed. Screeds to be level and even with high points ground down. Test samples to be provided of screeds. Moisture content to be checked with hydrometer (moisture not to exceed 75%) or tramex meter (moisture not to exceed 60%). Reading to be taken on average of every 30m. Test samples of screed to be provided. Where applicable, screed to falls to floor drain.				
		Mix				
		1:3 Cement/sand screed mix (SABS 471 and 1083 approved) level 1 standard, 25mpa.				
		SCREED				
		Screed to falls				
		Screeds wood floated, on concrete				
UPT	3.11.1	25mm Thick on floors and landings	m2	245,00	R	R
UPT	3.11.2	30mm Thick on floors and landings	m2	70,00	R	R
UPT	3.11.3	30mm Thick on floors on waterproofing membrane	m2	60,00	R	R
UPT	3.11.4	Average 30mm thick on floors with upper surface to falls	m2	20,00	R	R
UPT	3.11.5	Average 30mm thick on floors with upper surface to falls and currents	m2	20,00	R	R
UPT	3.11.6	Average 40mm thick on roofs with upper surface to falls	m2	20,00	R	R
UPT	3.11.7	Average 40mm thick on roofs with upper surface to falls and currents	m2	20,00	R	R
UPT	3.11.8	25mm Thick on treads and risers of stairs including reedings	m2	20,00	R	R
UPT	3.11.9	30mm Thick on treads and risers of stairs	m2	20,00	R	R
UPT	3.11.10	30mm Thick on narrow widths not exceeding 300mm wide	m2	20,00	R	R
UPT	3.11.11	Reedings in finish on ramps	m2	20,00	R	R

ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT	3.11.12	50 x 50mm Triangular fillets against walls, kerbs, etc	m	20,00	R	R
		Screeds steel trowelled, on concrete				
UPT	3.11.13	25mm Thick on floors and landings	m2	220,00	R	R
UPT	3.11.14	30mm Thick on floors and landings	m2	70,00	R	R
UPT	3.11.15	30mm Thick on floors on waterproofing membrane	m2	60,00	R	R
UPT	3.11.16	Average 30mm thick on floors with upper surface to falls	m2	20,00	R	R
UPT	3.11.17	Average 30mm thick on floors with upper surface to falls and currents	m2	20,00	R	R
UPT	3.11.18	Average 40mm thick on roofs with upper surface to falls	m2	20,00	R	R
UPT	3.11.19	Average 40mm thick on roofs with upper surface to falls and currents	m2	20,00	R	R
UPT	3.11.20	25mm Thick on treads and risers of stairs including reedings	m2	20,00	R	R
UPT	3.11.21	30mm Thick on treads and risers of stairs	m2	20,00	R	R
UPT	3.11.22	30mm Thick on narrow widths not exceeding 300mm wide	m2	20,00	R	R
UPT	3.11.23	Reedings in finish on ramps	m2	20,00	R	R
UPT	3.11.24	50 x 50mm Triangular fillets against walls, kerbs, etc	m2	20,00	R	R
		GRANOLITHIC				
		Untinted granolithic on concrete				
					_	
UPT	3.11.25	25mm Thick on floors and landings	m2	140,00	R	R
UPT	3.11.26	30mm Thick on floors and landings	m2	70,00	R	R
UPT	3.11.27	50mm Thick on floors and landings	m2	60,00	R	R
UPT	3.11.28	Average 30mm thick on floors with upper surface to falls	m2	20,00	R	R
UPT	3.11.29	Average 30mm thick on floors with upper surface to falls and currents	m2	20,00	R	R
UPT	3.11.30	Average 40mm thick on roofs with upper surface to falls	m2	20,00	R	R
UPT	3.11.31	Average 40mm thick on roofs with upper surface to falls and currents	m2	20,00	R	R
UPT	3.11.32	25mm Thick on treads and risers of stairs including reedings	m2	20,00	R	R
UPT	3.11.33	30mm Thick on treads and risers of stairs	m2	20,00	R	R
UPT	3.11.34	30mm Thick on narrow widths not exceeding 300mm wide	m2	20,00	R	R
UPT	3.11.35	Reedings in finish on ramps	m2	20,00	R	R
UPT	3.11.36	Skirtings 100mm high	m	20,00	R	R
UPT	3.11.37	Skirtings 100mm high stepped over treads and risers	m	20,00	R	R
		EXTERNAL PLASTER				
		Class I cement plaster on brickwork				
	3.11.38	On walls	m2	330,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Class I cement plaster on concrete				
UPT	3.11.39	On walls / columns	m2	140,00	R	R
UPT	3.11.40	On soffits / beams	m2	140,00	R	R
		INTERNAL PLASTER				
		Class I cement plaster on brickwork				
UPT	3.11.41	On walls	m2	330,00	R	R
		Class I cement plaster on concrete				
UPT	3.11.42	On walls/ columns	m2	140,00	R	R
UPT	3.11.43	On soffits / beams	m2	140,00	R	R
		Rhinolite skim plaster 20mm thick with smooth trowel finish				
LIPT	3.11.44	On partition walls	m2	160,00	R	R
	3.11.45	On plaster board ceilings	m2	140,00	R	R
	3.11.46	On bulkheads		140,00	R	R
UPI	3.11.40		m2	140,00	N .	n .
		CORNER PROTECTORS, DIVIDING STRIPS, ETC				
UPT	3.11.47	3 x 25mm Flat section galvanised mild steel dividing strip set on edge in screed between different floor finishes	m	90,00	R	R
UPT	3.11.48	3 x 25mm Flat section brass dividing strip or waterbar set on edge in screed between different floor finishes	m	90,00	R	R
		Materials & Plant				
UPT	3.11.49	Provision for Sundry Materials & Plant	Prov	1,00	R 9 000,00	R 9 000,00
	3.11.50	Allow for profit & attendance if required	%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	R 9 000,00	
		Provisional Sum				
	3.11.51	Sundry Plasterworks	Sum	1,00	R 9 000,00	
UPT	3.11.52	Allow for profit & attendance if required	%		R 9 000,00	R
		CARRIED TO SECTION SUMMARY				R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.12				
		TILING				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model				
		Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		Fixing				
		Descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat. Ceramic, porcelain,				
		marble and granite tiles are to be fixed and grouted with adhesives and grouts from the "tal Goldstar" range or equal approved.				
		WALL TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic wall tiles				
		fixed with adhesive to:				
UPT	3.12.1	On walls	m2	140,00	R	R
UPT	3.12.2	On narrow widths	m2	40,00	R	R
		Provide the prime cost amount of R 500.00 per m2 for porcelain wall tiles				
		fixed with adhesive to:				
UPT	3.12.3	On walls	m2	140,00	R	R
UPT	3.12.4	On narrow widths	m2	40,00	R	R
		FLOOR TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic floor tiles fixed with adhesive to:				
UPT	3.12.5	On floors	m2	237,00	R	R
	3.12.6	On narrow widths	m2	40,00	R	R
140	3.12.7	On floors landings in patterns	m2	70,00	R	R
		Provide the prime cost amount of R 500.00 per m2 for porcelain floor tiles fixed with adhesive to:				
UPT	3.12.8	On floors	m2	220,00	R	R
UPT	3.12.9	On narrow widths	m2	40,00	R	R
UPT	3.12.10	On floors landings in patterns	m2	70,00	R	R

SUNDRIES Aluminium dividing strips Provide the prime cost amount of R 75.00 per m for dividing strips UPT 312.31 Pat section dividing strips between tiles m 30,00 R R Aluminium / Stainless steel/ Brass/ corner protectors, stair nosings, expansion joint strips, etc Provide the prime cost amount of R 200,00 per m for trims; UPT 312.33 Corner protectors UPT 312.34 Stair nosings m 10,00 R R UPT 312.35 Single expansion joint strips with vinyl rubber inlay UPT 312.31 Oouble expansion joint strips with vinyl rubber inlay UPT 312.31 Aluminium / Stain or Strips with vinyl rubber inlay UPT 312.31 Aluminium / Stain or Strips with vinyl rubber inlay UPT 312.35 Single expansion joint strips with vinyl rubber inlay UPT 312.37 Provision for Sundry Materials & Plant UPT 312.38 Alitow for profe & attendance if required Prov 1,00 R 22,500,00 R 22,500,00 R UPT 312.39 Sundry Tiling Works UPT 312.20 Nark sp provision on sundry Tiling Works R 22,500,00 R CARRIED TO SECTION SUMMARY R	ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
Aluminium dividing strips Provide the prime cost amount of R 75.00 per m for dividing strips: UPT 3.12.13 Flat section dividing strips between tiles m 30.00 R R R Aluminium / Stainless steel/ Brass/ corner protectors, stair nosings, expansion joint strips, etc Provide the prime cost amount of R 200.00 per m for trims; UPT 3.1.213 Corner protectors UPT 3.1.214 Stair nosings m 10.00 R R UPT 3.1.215 Single expansion joint strips with vinyl rubber inlay m 10.00 R R UPT 3.1.2.10 Couble expansion joint strips with vinyl rubber inlay m 10.00 R R Waterials & Plant UPT 3.1.2.17 Provision for Sundry Materials & Plant UPT 3.1.2.18 Allow for profit & attendance if required S Sum 1,00 R 22 500,00 R 22 500,00 R Provisional Sum UPT 3.1.2.20 Mark up provision on sundry. Tiling Works S Sum 1,00 R 22 500,00 R 22 500,00 R Waterials & Plant UPT 3.1.2.20 Mark up provision on sundry. Tiling Works S Sum 1,00 R 22 500,00 R									
Provide the prime cost amount of R 75.00 per m for dividing strips: UPT 312.12 Fiat section dividing strips between tiles m 30,00 R R Aluminium / Stainless steel/ Brass/ corner protectors, stair nosings, expansion joint strips, etc Provide the prime cost amount of R 200,00 per m for trims: UPT 312.13 Corner protectors m 16,00 R R UPT 312.15 Stair nosings m 10,00 R R UPT 312.16 Outble expansion joint strips with vinyl rubber inlay m 10,00 R R UPT 312.17 Provision for Sundry Materials & Plant Prov 1,00 R 22 500,00 R UPT 312.18 Sundry Filling Works Sum 1,00 R 22 500,00 R Provision for Sundry Materials & Plant Prov 1,00 R 22 500,00 R UPT 312.19 Sundry Filling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 312.20 Mark up provision on sundry Tiling Works Sum 1,00									
UPT 312.11 Flat section dividing strips between tiles			Aluminium dividing strips						
UPT 3.12.12 L-section dividing strips between tiles			Provide the prime cost amount of R 75.00 per m for dividing strips:						
Aluminium / Stainless steel/ Brass/ corner protectors, stair nosings, expansion joint strips, etc Provide the prime cost amount of R 200 00 per m for trims; UPT 3.12.13 Corner protectors mm 16,00 R R R UPT 3.12.14 Stair nosings mm 10,00 R R R UPT 3.12.15 Single expansion joint strips with vinyl rubber inlay m 10,00 R R R UPT 3.12.16 Double expansion joint strips with vinyl rubber inlay m 10,00 R R R Materials & Plant UPT 3.12.17 Provision for Sundry Materials & Plant Provision for Sundry Materials & Plant UPT 3.12.19 Alicow for profit & attendance if required Ms R 22 500,00 R 22 500,00 R Provisional Sum UPT 3.12.29 Mark up provision on sundry Tiling Works Sum 1,00 R 22 500,00 R R 22 500,00 R R 22 500,00 R	UPT	3.12.11	Flat section dividing strips between tiles	m	30,00	R		R	
Provide the prime cost amount of R 200.00 per m for trims;	UPT	3.12.12	L-section dividing strips between tiles	m	30,00	R		R	
UPT 3.12.13 Corner protectors									
UPT 3.12.14 Stair nosings			Provide the prime cost amount of R 200.00 per m for trims:						
UPT 3.12.15 Single expansion joint strips with vinyl rubber inlay m 10,00 R R R UPT 3.12.16 Double expansion joint strips with vinyl rubber inlay m 10,00 R R R Materials & Plant UPT 3.12.17 Provision for Sundry Materials & Plant UPT 3.12.18 Provision for Sundry Materials & Plant UPT 3.12.19 Provisional Sum Provisional Sum UPT 3.12.19 Sundry Tilling Works Sum 1,00 R 22 500,00 R 22 500,00 R UPT 3.12.20 Mark up provision on sundry Tilling Works % R 22 500,00 R	UPT	3.12.13	Corner protectors	m	16,00	R		R	
UPT 3.12.16 Double expansion joint strips with vinyl rubber inlay m 10,00 R R Materials & Plant UPT 3.12.17 Provision for Sundry Materials & Plant UPT 3.12.18 Allow for profit & attendance if required % R 22 500,00 R Provisional Sum UPT 3.12.19 Sundry Tiling Works Sum 1,00 R 22 500,00 R UPT 3.12.19 Mark up provision on sundry Tiling Works % R 22 500,00 R	UPT	3.12.14	Stair nosings	m	10,00	R		R	
Materials & Plant	UPT	3.12.15	Single expansion joint strips with vinyl rubber inlay	m	10,00	R		R	
UPT 3.12.17 Provision for Sundry Materials & Plant Prov 1,00 R 22 500,00 R 22 500,00 R	UPT	3.12.16	Double expansion joint strips with vinyl rubber inlay	m	10,00	R		R	
UPT 3.12.18			Materials & Plant						
UPT 3.12.18	LIPT	3.12.17	Provision for Sundry Materials & Plant	Prov	1.00	R	22 500 00	R	22 500 00
UPT 3.12.19 Sundry Tiling Works Sum 1,00 R 22 500,00 R 22 500,00 UPT 3.12.20 Mark up provision on sundry Tiling Works % R 22 500,00 R					1,00	 			22 300,00
UPT 3.12.19 Sundry Tiling Works Sum 1,00 R 22 500,00 R 22 500,00 UPT 3.12.20 Mark up provision on sundry Tiling Works % R 22 500,00 R			D. 12.016						
UPT 3.12.20 Mark up provision on sundry Tiling Works			Provisional Sum						
				Sum	1,00	R	22 500,00	R	22 500,00
CARRIED TO SECTION SUMMARY R	UPT	3.12.20	Mark up provision on sundry Tiling Works	%		R	22 500,00	R	
CARRIED TO SECTION SUMMARY R									
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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.13				
	DILIBADING & DDAINAGE				
	PLUMBING & DRAINAGE				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	SOFFLEWIENTART FREAWIDLES				
	Wire gratings				
	Descriptions of gutter outlets etc shall be deemed to include wire balloon				
	gratings				
	Sterrangeter showneds				
	Stormwater channels				
	Descriptions of channels shall be deemed to include necessary excavation,				
	surface preparation, compaction, etc, and disposal of surplus material on				
	site				
	Stainless steel basins, sinks, wash troughs, urinals, etc				
	Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)				
	Type 450 (1770)				
	Stainless steel for basins, quality sinks, wash troughs, institutional				
	equipment, etc shall be Type 304 (18/8)				
	Units shall have standard aprons on all exposed edges and tiling keys				
	against walls where applicable				
	Sealing of edges				
	Outer edges of sinks, basins, etc are to be sealed against adjacent surfaces				
	with approved silicone				
	uPVC pipes and fittings				
	Sewer and drainage pipes and fittings shall be jointed and sealed with				
	butyl rubber rings				
	,				
	Soil, waste and vent pipes and fittings shall be solvent weld jointed or				
	sealed with butyl rubber rings				
	200				
	uPVC pressure pipes and fittings				
	Pipes of 50mm diameter and smaller shall be plain ended with solvent				
	welded uPVC loose sockets and fittings				
	0				
	Pipes of 63mm diameter and greater shall have sockets and spigots with				
	push-in type integral rubber ring joints. Bends shall be uPVC and all other				
	fittings shall be cast iron, all with similar push-in type joints				
	High density nelyothylane (UDDs) since and fixings				
	High density polyethylene (HDPe) pipes and fittings				
	Pipes shall be type IV and of the class specified with "Plasson" or				
1	"Alprene" compression fittings				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Copper pipes				
	Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016				
	Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition				
	Reducing fittings				
	Where fittings have reducing ends or branches they are described as				
	"reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained				
	Fiving of nines				
	Fixing of pipes				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level				
	Paper wrapping to pipes				
	Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings				
	Disinfection of water pipework				
	Water pipework is to be disinfected at completion in accordance with SABS 1200L				
	"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.				
	Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps				
	Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc				
	Prices for wrapping of pipes shall include for all work as described to couplings in the length				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				

Where no manufacturers' instructions exist, pipes shall be laid in accordance with each of the following: SAS 2001. The committee drainage Pipe strenches, set shall be backfilled in accordance with SABS 12000B: Earthworks [Pipe trenches] Pipes shall be bedded in accordance with SABS 12000B: Earthworks [Pipe trenches] Pipes shall be bedded in accordance with SABS 12001B: Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding General Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for pipes, etc. are given separately) Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for pipes, etc. are given separately) Descriptions of pipes laid in and including trenches and of inspection chamber, catchpits, etc. shall be deemed to include exaustion, bedding, buddilling, compaction and disposal of surplus material on site Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to appe, etc. and to steel pipes (adaptors for connections to appe, etc.) Descriptions of service pipes and flexible connecting pipes shall be deemed to include for joints to coll pipes As-built drawings Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract/package the contractors shall hand these drawings to the employer's representative for reproducing onto the originals for handing over to the employer SAMTARY FITTINGS NOTE: All fittings butting up against wall or floor finishes or fitting into professor shall be deemed to include for programing the worktop susing clips provided. The contractor is not produce for preparing the worktop to receive the fitting and securely fitting simils to worktops using clips provided. The contractor is not provide worktop and propries and propries are provided proper engagement for these clips Note: Stainless steel for urinals, bassi	ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Pipes shall be bedded in accordance with SABS 1200LB: Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding General Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to object on include joints to disterns and splay out ends Descriptions of pipes laid in and beddend in the shall be deemed to include expection chambers, catchipts, etc shall be deemed to include scation, backfilling, compaction and disposal of surplus material on site Descriptions of pipes laid in and disposal of surplus material on site Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, osterns, etc and to steel pipes (adaptors for connections to toppe pipes, etc are given separately) Descriptions of Service pipes and flexible connecting pipes shall be deemed to include for joints to soil pipes. As-built drawings. As-built drawings. Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract/package the contractor shall hand these drawings to the employer spreamantive for reproducing onto the originals for handing over to the employer SANITARY FITTINGS NOTE: All fittings butting up against wall or floor finishes or fitting into preformed openings in timber tops are to be scaled with an approved all purpose silicones sealant. Prices for sinks described as drop in are to include for preparing the worktop to receive the fitting and securely fixing sinks to worktops using clips provided. The contractor is to provide worktop manufacturers with details of cut outs to resurre that the use poinings are sufficiently accurate to provide proper engagement for these clips			accordance with each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers				
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204 Stainless Steel			Note: Stainless steel for urinals, basins, sinks, etc, shall be type 304 (18/8)				
1306 Matthew Meet			304 Stainless Steel				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Provide the prime cost amount of R 1800.00 each for wash troughs:				
UPT 3.13.1	Single bowl wash trough. Unit to be fixed to the wall with a pair of Stainless Steel wallfixing brackets.	No	10,00	R	R
	Provide the prime cost amount of R 3200.00 each for wash troughs:				
UPT 3.13.2	Double bowl wash trough. Unit to be fixed to the wall with a pair of Stainless Steel wallfixing brackets.	No	5,00	R	R
	Sinks				
	Provide the prime cost amount of R 1800.00 each for sinks:				
UPT 3.13.3	Stainless steel single end bowl sink and drainer set in top of timber / stone counter top (Elsewhere measured).	No	10,00	R	R
	Provide the prime cost amount of R 3200.00 each for wash troughs:				
UPT 3.13.4	Stainless steel double bowl sink and drainer set in top of timber / stone counter top (Elsewhere measured).	No	5,00	R	R
	Wash hand basin				
UPT 3.13.5	Provide the prime cost amount of R 2200.00 each for wall mounted basin	No	5,00	R	R
	Wash hand basin "Paraplegic"				
UPT 3.13.6	Provide the prime cost amount of R 2200.00 each for wall mounted paraplegic basin	No	3,00	R	R
	<u>Urinals</u>				
UPT 3.13.7	Provide the prime cost amount of R 5000.00 each for wall mounted urinals	No	5,00	R	R
	Toilets etc				
UPT 3.13.8	Provide the prime cost amount of R 4000.00 each for toilets installed complete	No	10,00	R	R
UPT 3.13.9	Provide the prime cost amount of R 5000.00 each for paraplegic toilets installed complete		3,00	R	R
	WASTE UNIONS ETC				
	"Cobra Watertech" or equal approved				
UPT 3.13.10	40mm Wash trough waste	No	20,00	R	R
	TRAPS ETC				
	PVC				
UPT 3.13.11	Rubber waste reseal "P" 32x40mm (basin)	No	20,00	R	R
	TAPS, VALVES, ETC		•		

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Taps, showers etc				
UPT	3.13.12	Provide the prime cost amount of R 2000.00 each for taps and sink mixers	No	10,00	R	R
UPT	3.13.13	Provide the prime cost amount of R 1500.00 each for shower heads	No	5,00	R	R
UPT	3.13.14	Provide the prime cost amount of R 2000.00 each for shower mixers	No	5,00	R	R
UPT	3.13.15	22mm Brass Non-return valve	No	10,00	R	R
		SANITARY PLUMBING				
		uPVC soil and vent pipes				
UPT	3.13.16	40mm Diameter Pipes	m	30,00	R	R
UPT	3.13.17	50mm Diameter Pipes	m	30,00	R	R
UPT	3.13.18	75mm Diameter Pipes	m	30,00	R	R
UPT	3.13.19	110mm Diameter Pipes	m	30,00	R	R
		Extra over uPVC soil and vent pipes for fittings				
UPT	3.13.20	40mm Bend	No	10,00	R	R
UPT	3.13.21	40mm Inspection bend	No	10,00	R	R
UPT	3.13.22	40mm Junction	No	10,00	R	R
UPT	3.13.23	50mm BSP adaptor	No	10,00	R	R
UPT	3.13.24	50mm Bend	No	10,00	R	R
UPT	3.13.25	50mm Inspection bend	No	10,00	R	R
UPT	3.13.26	50mm Junction	No	10,00	R	R
UPT	3.13.27	50mm Access bend	No	10,00	R	R
UPT	3.13.28	50mm vent valve	No	10,00	R	R
UPT	3.13.29	50mm Two way vent valve	No	10,00	R	R
UPT	3.13.30	50mm Inspection junction	No	10,00	R	R
UPT	3.13.31	75mm Bend	No	10,00	R	R
UPT	3.13.32	75mm Inspection bend	No	10,00	R	R
UPT	3.13.33	75mm Junction	No	10,00	R	R
UPT	3.13.34	75mm Inspection junction	No	10,00	R	R
UPT	3.13.35	75mm Reducing junction	No	10,00	R	R
UPT	3.13.36	75mm Inspection reducing junction	No	10,00	R	R
UPT	3.13.37	75mm Reducer	No	10,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT	3.13.38	110mm Bend	No	10,00	R	R
UPT	3.13.39	110mm Inspection bend	No	10,00	R	R
UPT	3.13.40	110mm Junction	No	10,00	R	R
UPT	3.13.41	110mm Inspection junction	No	10,00	R	R
UPT	3.13.42	110mm Reducing junction	No	10,00	R	R
UPT	3.13.43	110mm Inspection reducing junction	No	10,00	R	R
UPT	3.13.44	110mm Reducer	No	10,00	R	R
UPT	3.13.45	110mm Pan connector	No	10,00	R	R
UPT	3.13.46	110mm Two way vent valve	No	10,00	R	R
		Testing				
UPT	3.13.47	Testing waste pipe system	Item	1,00	R	R
		WATER SUPPLIES				
		Class 0 copper pipes with brass compression couplings				
UPT	3.13.48	15mm Pipes	m	30,00	R	R
UPT	3.13.49	15mm Pipes chased into brickwork or concrete	m	30,00	R	R
UPT	3.13.50	22mm Pipes	m	30,00	R	R
UPT	3.13.51	22mm Pipes chased into brickwork or concrete	m	30,00	R	R
UPT	3.13.52	28mm Pipes	m	30,00	R	R
UPT	3.13.53	28mm Pipes chased into brickwork or concrete	m	30,00	R	R
UPT	3.13.54	35mm Pipes	m	30,00	R	R
UPT	3.13.55	35mm Pipes chased into brickwork or concrete	m	30,00	R	R
UPT	3.13.56	42mm Pipes	m	30,00	R	R
UPT	3.13.57	54mm Pipes	m	30,00	R	R
UPT	3.13.58	67mm Pipes	m	30,00	R	R
UPT	3.13.59	76mm Pipes	m	30,00	R	R
UPT	3.13.60	108mm Pipes	m	30,00	R	R
		Extra over Class 0 copper pipes for capillary fittings				
UPT	3.13.61	15mm Fittings	No	10,00	R	R
UPT	3.13.62	22mm Fittings	No	10,00	R	R
UPT	3.13.63	28mm Fittings	No	10,00	R	R
UPT	3.13.64	35mm Fittings	No	10,00	R	R
UPT	3.13.65	42mm Fittings	No	10,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT	3.13.66	54mm Fittings	No	10,00	R	R
UPT	3.13.67	67mm Fittings	No	10,00	R	R
UPT	3.13.68	76mm Fittings	No	10,00	R	R
UPT	3.13.69	108mm Fittings	No	10,00	R	R
		Extra over Class 0 copper pipes for brass compression fittings				
UPT	3.13.70	15mm Fittings	No	10,00	R	R
UPT	3.13.71	22mm Fittings	No	10,00	R	R
UPT	3.13.72	28mm Fittings	No	10,00	R	R
UPT	3.13.73	35mm Fittings	No	10,00	R	R
UPT	3.13.74	42mm Fittings	No	10,00	R	R
UPT	3.13.75	54mm Fittings	No	10,00	R	R
UPT	3.13.76	67mm Fittings	No	10,00	R	R
UPT	3.13.77	76mm Fittings	No	10,00	R	R
UPT	3.13.78	108mm Fittings	No	10,00	R	R
		Class 12.5 "HDPE" Pipes				
UPT	3.13.79	20mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	30,00	R	R
UPT	3.13.80	32mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	30,00	R	R
UPT	3.13.81	40mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	30,00	R	R
UPT	3.13.82	50mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	30,00	R	R
UPT	3.13.83	75mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	30,00	R	R
UPT	3.13.84	90mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	30,00	R	R
UPT	3.13.85	110mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	30,00	R	R
		Extra over "HDPE" for fittings				
UPT	3.13.86	20mm Diameter Straight Coupling	No	10,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT 3.13.87	20mm Diameter Reducing Coupling	No	10,00	R	R
UPT 3.13.88	20mm Diameter Equal Tee	No	10,00	R	R
UPT 3.13.89	20mm Diameter Male Adaptor	No	10,00	R	R
UPT 3.13.90	20mm Diameter 90 Degree Elbow	No	10,00	R	R
UPT 3.13.91	40mm Diameter Straight Coupling	No	10,00	R	R
UPT 3.13.92	40mm Diameter Reducing Coupling	No	10,00	R	R
UPT 3.13.93	40mm Diameter Equal Tee	No	10,00	R	R
UPT 3.13.94	40mm Diameter Male Adaptor	No	10,00	R	R
UPT 3.13.95	40mm Diameter 90 Degree Elbow	No	10,00	R	R
UPT 3.13.96	50mm Diameter Straight Coupling	No	10,00	R	R
UPT 3.13.97	50mm Diameter Reducing Coupling	No	10,00	R	R
UPT 3.13.98	50mm Diameter Equal Tee	No	10,00	R	R
UPT 3.13.99	50mm Diameter Male Adaptor	No	10,00	R	R
	50mm Diameter 90 Degree Elbow	No	10,00	R	R
	75mm Diameter Straight Coupling	No	10,00	R	R
UPT 3.13.102	75mm Diameter Reducing Coupling	No	10,00	R	R
UPT 3.13.103	75mm Diameter Equal Tee	No	10,00	R	R
UPT 3.13.104	75mm Diameter Male Adaptor	No	10,00	R	R
UPT 3.13.105	75mm Diameter 90 Degree Elbow	No	10,00	R	R
UPT 3.13.106	90mm Diameter Straight Coupling	No	10,00	R	R
UPT 3.13.107	90mm Diameter Reducing Coupling	No	10,00	R	R
UPT 3.13.108	90mm Diameter Equal Tee	No	10,00	R	R
UPT 3.13.109	90mm Diameter Male Adaptor	No	10,00	R	R
UPT 3.13.110	90mm Diameter 90 Degree Elbow	No	10,00	R	R
UPT 3.13.111	110mm Diameter Straight Coupling	No	10,00	R	R
UPT 3.13.112	110mm Diameter Reducing Coupling	No	10,00	R	R
UPT 3.13.113	110mm Diameter Equal Tee	No	10,00	R	R
UPT 3.13.114	110mm Diameter Male Adaptor	No	9,00	R	R
UPT 3.13.115	110mm Diameter 90 Degree Elbow	No	9,00	R	R
	ELECTRIC WATER HEATERS				
	"Kwikot" or similar approved including all fittings, adaptors,				
	couplings, etc, for connection to the relevant piping.				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE	AMOUNT		
UPT	3.13.116	Provide the prime cost amount of R 3000.00 each for undercounter geysers	No	5,00	R		R		
UPT	3.13.117	Provide the prime cost amount of R 7000.00 each for 100 litre geysers	No	5,00	R		R		
UPT	3.13.118	Provide the prime cost amount of R 9000.00 each for 150 litre geysers	No	5,00	R		R		
UPT	3.13.119	Provide the prime cost amount of R 11000.00 each for 200 litre geysers	No	4,00	R		R		
		Testing							
UPT	3.13.120	Testing supply water pipe system	Item	1,00	R		R		
		HOLES ETC							
		Core drilling of hole for pipe not exceeding 50mm diameter							
UPT	3.13.121	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	3,00	R		R		
		Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter							
UPT	3.13.122	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	3,00	R		R		
		Materials & Plant							
		Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	27 000,00 27 000,00		27 000,00	
		Provisional Sum							
UPT	3.13.125	Sundry Plumbing Works	Sum	1,00	R	27 000,00	R	27 000,00	
UPT	3.13.126	Allow for profit & attendance if required	%	,	R	27 000,00	R		
		CARRIED TO SECTION SUMMARY					R		
		CARRILLO TO SECTION SOLVINIARY							

TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.14				
	PAINTWORK				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces				
	Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	Previously painted wood surfaces				
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
	Paintwork to steel surfaces				
	Steel surfaces to be cleaned of all rust, scale and dirt, removed by scraping or with steel wire brush. All oil and grease shall also be removed to obtain a perfectly clean surface. After removing rust from steel, steel is to be painted with a suitable rust converter and primer. Finish with a quality, extremely durable, washable and pure acrylic emulsion enamel paint. For steel door frames, clean down with galvkleen to manufacturers specification before applying primer for galvanised iron. All door frames to be finished with a Water-Based premium quality satin finish non-drip enamel paint.				
	Paintwork to timber surfaces				
	Exposed timber trusses etc. are to be sanded down to smooth finish working in direction of grain. Apply first coat paint thinned 10 parts paint and one part water for penetration. Apply 1 to 2 further coats unthinned (depending on coverage). All to manufacturer specifications. Colour as per architects spec. Timber door surfaces must be dry, clean and free of contaminants. Sand to a smooth surface, free of loose fibres. Remove all dust prior to the application of the basecoat.				
	PAINT SPECIFICATIONS				
	COLOURS				
	Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091.				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		NOTE: All paint products utilised must be SABS/SANS approved. All paint products utilised must be suitable for use in commercial/industrial applications. Acceptable products include proffesional or trade ranges from paint manufacturers. All products utilised must be suited to the application in which it will be used. Paint utilised must perform in accordance with applicable and relevant SANS codes/standards				
		The client reserves the right to reject paint coatings / paint systems that perform poorly / fail due to inferior quality/ that are not SABS approved.				
		PAINTWORK TO NEW WORK				
		"Plascon professional range" or equal approved				
		One coat "Professional Gypsum & Plaster Primer" with an overcoating time of 16 hours and finish with three coats finishing coat (Professional Superior Low Sheen acrylic emulsion paint)				
UPT	3.14.1	On internal walls	m2	400,00	R	R
UPT	3.14.2	On external walls	m2	400,00	R	R
UPT	3.14.3	On ceilings and beams	m2	400,00	R	R
		One coat "Professional Gypsum & Plaster Primer" with an overcoating time of 16 hours and finish with three coats finishing coat (Professional Superior Matt Paint acrylic emulsion paint)				
UPT	3.14.4	On partitions	m2	270,00	R	R
UPT	3.14.5	On ceilings and cornices	m2	270,00	R	R
UPT	3.14.6	On fascias and barge boards	m2	70,00	R	R
		Apply one coat Professional Alkali resistant plaster primer and three coats Paint (Professional Superior Matt Paint)				
UPT	3.14.7	On Rhinolite walls	m2	220,00	R	R
		ON METAL				
		Prime bare metal surfaces with "Superior Quality" zinc chromate and apply one undercoat and two coats paint on steel (Professional high gloss enamel paint)				
UPT	3.14.8	On doors	m2	70,00	R	R
UPT	3.14.9	On door frames	m2	70,00	R	R
UPT	3.14.10	On windows	m2	70,00	R	R
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)				
UPT	3.14.11	On palisade fencing	m2	140,00	R	R
UPT	3.14.12	On steel barriers	m2	70,00	R	R
UPT	3.14.13	On balustrades	m2	70,00	R	R
UPT	3.14.14	On gates, grilles, burglar screens etc.	m2	70,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		ON WOOD				
		One coat wood primer, one undercoat & two coats alkyd enamel paint				
		(Professional gloss enamel paint)				
UPT	3.14.15	On boarded panelling	m2	70,00	R	R
UPT	3.14.16	On boarded ceilings	m2	70,00	R	R
UPT	3.14.17	On doors	m2	70,00	R	R
UPT	3.14.18	On door frames	m2	70,00	R	R
UPT	3.14.19	On skirtings	m	70,00	R	R
		Prime bare areas with "Wood Primer" and apply two coats "Timber Varnish" (High gloss wood varnish)				
UPT	3.14.20	On boarded panelling	m2	70,00	R	R
UPT	3.14.21	On boarded ceilings	m2	70,00	R	R
UPT	3.14.22	On doors	m2	70,00	R	R
UPT	3.14.23	On door frames	m2	70,00	R	R
UPT	3.14.24	On skirtings	m	70,00	R	R
		STEEL ROOFS				
		Prepare surface, prime bare areas with primer and apply two coats roof				
		paint (Plascon Nuroof paint or equal approved)				
UPT	3.14.25	On metal roof sheets	m2	360,00	R	R
UPT	3.14.26	To cladding sheets	m2	140,00	R	R
		PREVIOUSLY PAINTED SURFACES				
		"Plascon professional range" or equal approved				
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
UPT	3.14.27	On internal walls	m2	290,00	R	R
UPT	3.14.28	On external walls	m2	290,00	R	R
UPT	3.14.29	On ceilings and beams	m2	220,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Matt Paint)				
UPT	3.14.30	On partitions	m2	220,00	R	R
UPT	3.14.31	On ceilings and cornices	m2	220,00	R	R
UPT	3.14.32	On fascias and barge boards	m2	70,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
	3.14.33	On Rhinolite walls	m2	140,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE	Å	MOUNT
	METAL SURFACES WITH						
	Prime bare metal surfaces with "Superior Quality" zinc chromate and apply one undercoat and two coats paint on steel (Professional high gloss enamel paint)						
UPT 3.14.34	Windows and door frames	m2	70,00	R		R	
	Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)						
UPT 3.14.35	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat ares)	m2	70,00	R		R	
	PAINT ON WOOD						
	Prepare and apply two full coats plascon alkyd enamel paint						
UPT 3.14.36	On general surfaces	m2	70,00	R		R	
	Prepare and apply two full coats plascon alkyd enamel paint						
UPT 3.14.37	On boarded panelling	m2	70,00	R		R	
UPT 3.14.38	On boarded ceilings	m2	70,00	R		R	
UPT 3.14.39	On doors	m2	70,00	R		R	
UPT 3.14.40	On door frames	m2	70,00	R		R	
UPT 3.14.41	On skirtings	m	70,00	R		R	
	Prepare and apply two coats "Timber Varnish" (High gloss wood varnish)						
UPT 3.14.42	On boarded panelling	m2	70,00	R		R	
UPT 3.14.43	On boarded ceilings	m2	70,00	R		R	
UPT 3.14.44	On doors	m2	70,00	R		R	
UPT 3.14.45	On door frames	m2	70,00	R		R	
UPT 3.14.46	On skirtings	m	70,00	R		R	
	STEEL ROOFS						
	Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)						
UPT 3.14.47	On metal roof sheets	m2	345,00	R		R	
UPT 3.14.48	To cladding sheets	m2	70,00	R		R	
	Materials & Plant						
UPT 3.14.49 UPT 3.14.50	,	Prov	1,00	R	22 500,00		22 500,00
UP1 3.14.30	Allow for profit & attendance if required Provisional Sum	%		R	22 500,00	N.	
UPT 3.14.51		Sum	1.00	R	22 500,00	D	22 500,00
UPT 3.14.51		Sum %	1,00	R	22 500,00		∠∠ 5UU,UU

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARRIED TO CECTION SUCCESSION				D
		CARRIED TO SECTION SUMMARY				R

BILL	SECTION 3 SUMMARY - BUILDING WORKS	PAGE NO.	AMOUNT
1	Alterations	170	R
2	Earthworks	173	R
3	Concrete, Formwork & Reinforcement	178	R
4	Masonry	181	R
5	Waterproofing	184	R
6	Carpentry & Joinery	186	R
7	Ceilings, Partitions & Access Flooring	189	R
8	Floor Coverings, Wall Linings etc	190	R
9	Ironmongery	193	R
10	Metalwork	195	R
11	Plastering	199	R
12	Tiling	201	R
13	Plumbing & Drainage	210	R
14	Paintwork	215	R
	CARRIED TO SITE	SUMMARY	R

			CLUSTER 2 UPT					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT			
	SECTION 4							
	EXTERNAL WORKS							
	BILL NO.1							
	ROADWORKS							
	PREAMBLES							
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)							
	SUPPLEMENTARY PREAMBLES							
	Testing of material and filling							
	Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series							
	Site preparation							
UPT 4.1.1	Trim and level terraced area and compact to set levels.	m2	220,00	R	R			
	Digging up topsoil							
UPT 4.1.2	Digging up topsoil to an average depth of 150mm and preserving for use as filling	m3	40,00	R	R			
	BULK EXCAVATION, FILLING ETC							
UPT 4.1.3	Open face excavation in earth over sloping site	m3	30,00	R	R			
	Excavation							
UPT 4.1.4	Excavate in earth not exceeding 1000mm deep	m3	10,00	R	R			
	Keeping excavations free of water							
UPT 4.1.5	Keeping excavations free of water	Item	1,00	R	R			
	Extra over all excavations for carting away							
UPT 4.1.6	Surplus material from excavations and/or stock piles on site to a dumping	m3	30,00	R	R			
01114.1.0	site to be located by the contractor	1113	30,00	IX.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
	LAYER WORK							
	Earth filling obtained from the excavations and/or prescribed stock piles on site							
UPT 4.1.7	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R			
	Filling supplied by the contractor under parking areas, roadways, etc							
UPT 4.1.8	25mm thick clean, dry river sand layer treated with an approved weed killer at a rate of 50 grams per square metre, spread and levelled to receive paving blocks (elsewhere)	m2	70,00	R	R			

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT	4.1.9	G8 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	10,00	R	R
UPT	4.1.10	G7 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	10,00	R	R
UPT	4.1.11	G7 Gravel-soil material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R
UPT	4.1.12	Extra over for G7 stabilised with Portland cement compacted to 95% Mod AASHTO density	m3	10,00	R	R
UPT	4.1.13	Subbase course of G6 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R
UPT	4.1.14	G5 Natural gravel material compacted in 150mm layers to 93% Mod AASHTO density	m3	10,00	R	R
UPT	4.1.15	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R
UPT	4.1.16	Base course of G4 natural gravel material in 150mm layers compacted to 98% Mod AASHTO density	m3	10,00	R	R
UPT	4.1.17	G2 base compacted to 100% Mod AASHTO density	m3	10,00	R	R
		Compaction of surfaces				
UPT	4.1.18	Compaction of ground surfaces under roadworks etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Roadbed)	m2	220,00	R	R
		SOIL POISONING				
		Weedkiller (active ingredients metolachlor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) or similar approved mixed in the proportion of 100 ml weedkiller to 100l water and applied at a rate of 10 l/m2				
UPT	4.1.19	Under roads, paving etc.	m2	220,00	R	R
		TESTS				
UPT	4.1.20	Prescribed tests to determine degree of compaction or similar approved properties of ground or filling				
UPT	4.1.21	"Modified AASHTO Density" test	No	1,00	R	R
UPT	4.1.22	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	1,00	R	R
UPT	4.1.23	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	1,00	R	R
UPT	4.1.24	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	1,00	R	R
UPT	4.1.25	UCS test in accordance with method A14 of TMH 1	No	1,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	PAVING				
	Provide the prime cost of R 500.00 per square metre for paving bricks delivered to site in accordance with SANS 1058, laid to falls on and including 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor				
UPT 4.1.26	Paving to roadwork and parking to falls	m2	156,00	R	R
UPT 4.1.27	Extra over for curved edges	m	70,00	R	R
	Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing				
	KERBS ETC				
UPT 4.1.28	Fig.1 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.29	Fig.2 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.30	Fig.3 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.31	Fig.4 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.32	Fig.5 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.33	Fig.6 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.34	Fig.6 Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.35	Fig.7 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.36	Fig.8 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.37	Fig.8b Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.38	Fig.8c Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.39	Fig.12 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.40	Fig.14 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
UPT 4.1.41	Fig.16 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
	TRAFFIC SIGNS AND ROAD MARKINGS				
	Prepare and apply one coat reflective road marking paint on bituminous road surfacing, precast concrete paving blocks, etc				
UPT 4.1.42	100mm Wide line	m	10,00	R	R

ITEM	NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT 4	.1.43	150mm Wide line	m	10,00	R	R
UPT 4	.1.44	300mm Wide line	m	10,00	R	R
UPT 4	.1.45	Standard type directional arrow not exceeding 1m2	No	1,00	R	R
UPT 4	.1.46	2500 x 2000mm Wide "traffic arrow" road marking paint	No	1,00	R	R
UPT 4	.1.47	5400 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R	R
UPT 4	.1.48	6000 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R	R
UPT 4	.1.49	Standard directional arrow signs not exceeding 2m2	No	1,00	R	R
		Materials & Plant				
UPT 4		Provision for Sundry Materials & Plant	Prov	1,00	R 9 000,00	
UPT 4		Allow for profit & attendance if required	%		R 9 000,00	R
		Provisional Sum				
UPT 4 UPT 4		Sundry Road Works Allow for profit & attendance if required	Sum %	1,00	R 9 000,00	
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 4				
	EXTERNAL WORKS				
	BILL NO.2				
	DRAINAGE				
	DNAINAGE				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers'				
	instructions and trenches shall be carefully backfilled				
	Where no manufacturers' instructions exist, pipes shall be laid in				
	accordance with each of the following: SABS 1200L: Medium-pressure pipelines				
	SABS 1200LD : Sewers				
	SABS 1200LE: Stormwater drainage				
	Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB:				
	Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	CTORM WATER RIPE				
	STORM WATER PIPE				
	Heavy duty uPVC storm water pipes				
UPT 4.2.1	110mm Diameter pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	40,00	R	R
	Extra over for uPVC fittings				
UPT 4.2.2	110mm Bend	No	10,00	R	R
UPT 4.2.3	110mm Junction	No	10,00	R	R
UPT 4.2.4	110mm Access junction	No	10,00	R	R
UPT 4.2.5	110mm Rodding Eye	No	10,00	R	R
	uPVC pipe Class 34 HD				
UPT 4.2.6	160mm Pipes laid in and including trenches(trench to be opened and	m	28,00	R	R
	banked at 1;3 grade allowing pipe to be exposed)		_5,50	.,	.,
	Extra over for uPVC fittings				
LIDT 4 2 7		Nic	10.00	D	D
UPT 4.2.7	160mm Bend	No	10,00	R	R
UPT 4.2.8	160mm Junction	No	10,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
UPT 4.2.9	160mm Access junction	No	10,00	R	R
UPT 4.2.10	160mm Rodding Eye	No	10,00	R	R
UPT 4.2.11	Catch pits and junction boxes	No	10,00	R	R
	MANHOLES ETC				
	Construct 1420mm x 1420mm brick manholes with medium duty cast iron				
	manhole cover and frame including excavations, backfilling, compaction				
	and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
	channeling and step from for the following depths.				
UPT 4.2.12	Over 0m and up to 1.0m	No	3,00	R	R
UPT 4.2.13	Over 1.0m and up to 2.0m	No	2,00	R	R
UPT 4.2.14	Over 2m and up to 3m	No	1,00	R	R
		140	1,00		N .
UPT 4.2.15	Over 3m and up to 4m	No	1,00	R	R
	Construct 1420mm x 1420mm brick manholes with heavy duty cast iron				
	manhole cover and frame including excavations, backfilling, compaction and cartaway surplus material, spacer, adaptor slabs, benching, junctions,				
	channelling and step irons for the following depths:				
UPT 4.2.16	Over 0m and up to 1.0m	No	1,00	R	R
UPT 4.2.17		No	1.00	R	D
UP1 4.2.17	Over 1.0m and up to 2.0m	No	1,00	K	R
UPT 4.2.18	Over 2m and up to 3m	No	1,00	R	R
UPT 4.2.19	Over 3m and up to 4m	No	1,00	R	R
	Testing Drainage System				
UPT 4.2.20	Testing soil drainage pipe system	Item	1,00	R	R
011 4.2.20		item	1,00	IV.	N .
	Materials & Plant				
UPT 4.2.21		Prov	1,00	R 4 500,00	
UPT 4.2.22	Allow for profit & attendance if required	%		R 4 500,00	R
	Provisional Sum				
UPT 4.2.23		Sum	1,00	R 4 500,00	
UPT 4.2.24	Allow for profit & attendance if required	%		R 4 500,00	R
	CARRIED TO SECTION SUMMARY				R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 4				
		EXTERNAL WORKS				
		BILL NO.3				
		SEWER RETICULATION				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model				
		Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		Laying, backfilling, bedding, etc of pipes				
		Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
		Where no manufacturers' instructions exist, pipes shall be laid in accordance with each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers				
		SABS 1200LE: Stormwater drainage				
		Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB : Earthworks (Pipe trenches)				
		Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
		Unless otherwise described bedding of rigid pipes shall be Class B bedding				
		Sewer manhole/ inspection chambers				
		Construct 1420mm x 1420mm brick manholes with medium duty cast iron				
		manhole cover and frame including excavations, backfilling, compaction				
		and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
UPT	4.3.1	Over 0m and up to 1.0m	No	1,00	R	R
UPT	4.3.2	Over 1.0m and up to 2.0m	No	1,00	R	R
				•		
UPT	4.3.3	Over 2m and up to 3m	No	1,00	R	R
UPT	4.3.4	Over 3m and up to 4m	No	1,00	R	R
		Construct 1420mm x 1420mm brick manholes with heavy duty cast iron				
		manhole cover and frame including excavations, backfilling, compaction and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
UPT	4.3.5	Over 0m and up to 1.0m	No	1,00	R	R
UPT	4.3.6	Over 1.0m and up to 2.0m	No	1,00	R	R
UPT	4.3.7	Over 2m and up to 3m	No	1,00	R	R
			A1.	4.00	D.	
UPT	4.3.8	Over 3m and up to 4m	No	1,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CONNECTION OF MAIN SEWER LINE TO BUILDINGS				
		Heavy duty (Class 34) uPVC sewer and drain pipes				
LIDT	4.2.0			25.00		
UPI	4.3.9	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	25,00	R	R
UPT	4.3.10	110mm Pipes laid in and including trenches not exceeding 1m deep	m	20,00	R	R
				-		
		Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings				
UPT	4.3.11	110mm Bend	No	6,00	R	R
UPT	4.3.12	110mm Junction	No	6,00	R	R
				•		
	4.3.13	110mm Access bend	No	6,00	R	R
UPT	4.3.14	110mm Access junction	No	6,00	R	R
UPT	4.3.15	110mm Rodding eye	No	6,00	R	R
		Class 34 uPVC pipes				
UPT	4.3.16	160mm Pipes laid in and including trenches(trench to be opened and	m	20,00	R	R
		banked at 1;3 grade allowing pipe to be exposed)				
		Extra over items for uPVC fittings				
UPT	4.3.17	160 x 110 mm Diameter Y junction	No	6,00	R	R
UPT	4.3.18	160 x 160 mm Diameter Y junction	No	6,00	R	R
		Channel bends		-		
UPT	4.3.19	160mm Diameter 45 degree bend	No	6,00	R	R
UPT	4.3.20	160mm Diameter 90 degree bend	No	6,00	R	R
		Sockets				
UPT	4.3.21	160mm Diameter	No	6,00	R	R
		End caps				
UPT	4.3.22	160mm Diameter	No	6,00	R	R
		SUNDRIES				
UPT	4.3.23	Excavation in earth for pipe trenches, chambers, etc	m3	10,00	R	R
UPT	4.3.24	Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the contractor	m3	10,00	R	R
		The second of the contractor				
UPT	4.3.25	Risk of collapse to sides of trenches	m2	20,00	R	R
UPT	4.3.26	Extra over backfilling to drain trenches, chambers, etc for Class B bedding cradle of compacted selected granular material	m3	7,00	R	R
UPT	4.3.27	25Mpa unreinforced concrete encasing to horizontal pipes laid in trenches N.E 1m deep	m3	2,00	R	R
		WATER				

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
UPT	4.3.28	Keeping excavations free of water	Item	1,00	R		R	
		uPVC gulleys						
UPT	4.3.29	110mm Gulley not exceeding 750mm deep including trap, head, grating etc	No	11,00	R		R	
		Testing						
LIDT	4.3.30		Itom	1,00	R		R	
UPT	4.5.50	Testing drainage system	Item	1,00	N.		N.	
		Materials & Plant						
	4.3.31	Provision for Sundry Materials & Plant	Prov	1,00	R	4 500,00	R	4 500,00
UPT	4.3.32	Allow for profit & attendance if required	%		R	4 500,00	R	
		Provisional Sum						
	4.3.33	Sundry Sewer Reticulation Works	Sum	1,00	R	4 500,00		4 500,00
UPT	4.3.34	Allow for profit & attendance if required	%		R	4 500,00	R	
			 					
		CARRIED TO SECTION SUMMARY					R	

BILL	SECTION 4 SUMMARY - EXTERNAL V	VORKS PAGE NO.		AMOUNT
1	Road Works	220	R	
2	Drainage	222	R	
3	Sewer Reticulation	225	R	
	CARRIED	TO SITE SUMMARY	R	

			CLUSTER 2						
			UPT						
ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT		
	SECTION 5								
	PROVISIONAL SUMS								
	BILL NO.1								
	PROVISIONAL SUMS FOR SUBCONTRACT WORKS								
	General								
	Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances								
	Provisional sums are for material and equipment supplied and installed complete by firms of specialists								
	General attendance on subcontractors								
	The item "attendance" which follows each provisional sum for subcontractors' work, shall be deemed to cover all the contractor's costs incurred in ensuring all contractual obligations for the works are met.								
	LATERAL SUPPORT, GROUND ANCHORING, PILING & UNDERPINNING, ETC								
UPT 5.1	Provide the sum of R78,000.00 for Lateral Support, Ground Anchoring, Piling & Underpinning, Etc by an approved sub-contractor	Sum	1,00	R	78 000,00	R	78 000,		
UPT 5.2	Allow for profit & attendance if required	%		R	78 000,00	R			
	ROOF COVERINGS, CLADDINGS ETC								
UPT 5.3	Provide the sum of R469,000.00 for Roof Coverings, Claddings Etc by an approved sub-contractor	Sum	1,00	R	469 000,00	R	469 000,		
UPT 5.4	Allow for profit & attendance if required	%		R	469 000,00	R			
	STRUCTURAL STEELWORK								
UPT 5.5	Provide the sum of R469,000.00 for Structural Steelwork by an approved sub-contractor	Sum	1,00	R	469 000,00	R	469 000,		
UPT 5.6	Allow for profit & attendance if required	%		R	469 000,00	R			
	JOINERY & CABINETRY INSTALLATION								
UPT 5.7	Provide the sum of R78,000.00 for the joinery & cabinetry installation by an approved sub-contractor	Sum	1,00	R	78 000,00	R	78 000,		
UPT 5.8	Allow for profit & attendance if required	%		R	78 000,00	R			

ITE	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ROLLER SHUTTERS & HANGAR DOORS						
UPT	5.9	Provide the sum of R156,000.00 for Roller Shutters & Hangar Doors by an approved sub-contractor	Sum	1,00	R	156 000,00	R	156 000,00
UPT	5.10	Allow for profit & attendance if required	%		R	156 000,00	R	
		GENERAL GLAZING						
UPT	5.11	Provide the sum of R78,000.00 for General Glazing by an approved sub- contractor	Sum	1,00	R	78 000,00	R	78 000,00
UPT	5.12	Allow for profit & attendance if required	%		R	78 000,00	R	
		ALUMINIUM FACADE CLADDING, SHOPFRONTS, WINDOWS AND DOORS						
UPT	5.13	Provide the sum of R156,000.00 for aluminium façade cladding, shopfronts, window and door installation by an approved sub-contractor	Sum	1,00	R	156 000,00	R	156 000,00
UPT	5.14	Allow for profit & attendance if required	%		R	156 000,00	R	
		SIGNAGE						
UPT	5.15	Provide the sum of R78,000.00 for corporate and directional signage by an approved subcontractor	Sum	1,00	R	78 000,00	R	78 000,00
UPT	5.16	Allow for profit & attendance if required	%		R	78 000,00	R	
		BLINDS, FURNITURE & FITTINGS						
UPT	5.17	Provide the sum of R117,000.00 for blinds, furniture and fittings by an approved subcontractor	Sum	1,00	R	117 000,00	R	117 000,00
UPT	5.18	Allow for profit & attendance if required	%		R	117 000,00	R	
		TENANT TEMPORARY RELOCATION & REINSTATEMENT						
UPT	5.19	Provide the sum of R 78,000.00 for tenant temporary relocation and reinstatement works by an approved subcontractor	Sum	1,00	R	78 000,00	R	78 000,00
UPT	5.20	Allow for profit & attendance if required	%		R	78 000,00	R	
		ASBESTOS REMOVAL						
UPT	5.21	Provide the sum of R78,000.00 for the Removal & Safe Disposal of Asbestos by an approved subcontractor	Sum	1,00	R	78 000,00	R	78 000,00
UPT	5.22	Allow for profit & attendance if required	%		R	78 000,00	R	
		GUTTERS & RAINWATER DISPOSAL SYSTEMS						
UPT	5.23	Provide the sum of R156,000.00 for Gutters & Rainwater Disposal Systems by an approved subcontractor	Sum	1,00	R	156 000,00	R	156 000,00
UPT	5.24	Allow for profit & attendance if required	%		R	156 000,00	R	

ITEM	NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ELECTRICAL, ELECTRONIC AND MECHANICAL INSTALLATIONS						
		GENERAL ELECTRICAL INSTALLATIONS						
UPT 5	5.25	Provide the sum of R469,000.0 for General Electical Installations by an approved subcontractor	Prov	1,00	R	469 000,00	R	469 000,0
UPT 5	5.26	Allow for profit & attendance if required	%		R	469 000,00	R	
		SUB - STATION INSTALLATIONS						
UPT 5	5.27	Provide the sum of R78,000.00 for Sub Station Installations by an approved subcontractor	Sum	1,00	R	78 000,00	R	78 000,0
UPT 5	5.28	Allow for profit & attendance if required	%		R	78 000,00	R	
		UPS INSTALLATIONS						
UPT 5	5.29	Provide the sum of R78,000.00 for UPS Installations by an approved subcontractor	Sum	1,00	R	78 000,00	R	78 000,0
UPT 5	5.30	Allow for profit & attendance if required	%		R	78 000,00	R	
		GENERATOR INSTALLATION						
UPT 5	5.31	Provide the sum of R78,000.00 for the Generator Installation by an approved sub-contractor	Sum	1,00	R	78 000,00	R	78 000,0
UPT 5	5.32	Allow for profit & attendance if required	%		R	78 000,00	R	
		FIRE DETECTION & FIRE STOPPING INSTALLATION						
UPT 5	5.33	Provide the sum of R117,000.00 for the Fire Detection & Fire Stopping Installation by an approved sub-contractor	Sum	1,00	R	117 000,00	R	117 000,0
UPT 5	5.34	Allow for profit & attendance if required	%		R	117 000,00	R	
		ACCESS CONTROL						
UPT 5	5.35	Provide the sum of R39,000.00 for the Access Control System installation by an approved sub-contractor	Sum	1,00	R	39 000,00	R	39 000,0
UPT 5	5.36	Allow for profit & attendance if required	%		R	39 000,00	R	
		CCTV INSTALLATION						
UPT 5	5.37	Provide the sum of R39,000.00 for CCTV installation by an approved sub- contractor	Sum	1,00	R	39 000,00	R	39 000,0
UPT 5	5.38	Allow for profit & attendance if required	%		R	39 000,00	R	
		INTERNET AND TELECOMMUNICATION INSTALLATION						
UPT 5	5.39	Provide the sum of R78,000.00 for the internet and telecommunication installation by an approved subcontractor	Sum	1,00	R	78 000,00	R	78 000,0
UPT 5	5.40	Allow for profit & attendance if required	%		R	78 000,00	R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
	GENERAL MECHANICAL INSTALLATION						
UPT 5.41	Provide the sum of R469,000.00 for General Mechanical Installations by an approved subcontractor	Prov	1,00	R	469 000,00	R	469 000,00
UPT 5.42	Allow for profit & attendance if required	%		R	469 000,00	R	
	FIRE PROTECTION INSTALLATIONS						
UPT 5.43	Provide the sum of R78,000.00 for Fire Protection Installations by an approved subcontractor	Sum	1,00	R	78 000,00	R	78 000,00
UPT 5.44	Allow for profit & attendance if required	%		R	78 000,00	R	
	SPRINKLER INSTALLATIONS						
UPT 5.45	Provide the sum of R156,000.00 for Sprinkler Installations by an approved subcontractor	Sum	1,00	R	156 000,00	R	156 000,00
UPT 5.46	Allow for profit & attendance if required	%		R	156 000,00	R	
	GAS SUPPRESSION INSTALLATIONS						
UPT 5.47	Provide the sum of R156,000.00 for Gas Suppression Installations by an approved subcontractor	Sum	1,00	R	156 000,00	R	156 000,00
UPT 5.48	Allow for profit & attendance if required	%		R	156 000,00	R	
	SMOKE EXTRACTION INSTALLATIONS						
UPT 5.49	Provide the sum of R156,000.00 for Smoke Extraction Installations by an approved subcontractor	Sum	1,00	R	156 000,00	R	156 000,00
UPT 5.50	Allow for profit & attendance if required	%		R	156 000,00	R	
	HVAC INSTALLATION						
UPT 5.51	Provide the sum of R469,000.00 for the HVAC installation by an approved sub-contractor	Sum	1,00	R	469 000,00	R	469 000,00
UPT 5.52	Allow for profit & attendance if required	%		R	469 000,00	R	
	LANDSCAPING WORKS						
UPT 5.53	Provide the sum of R156,000.00 for Landscaping Works by an approved sub-contractor	Sum	1,00	R	156 000,00	R	156 000,00
UPT 5.54	Allow for profit & attendance if required	%		R	156 000,00	R	
	SPECIALIST WORKS						
UPT 5.55	Provide the sum of R78,000.00 for Specialist Works by an approved sub-contractor	Prov	1,00	R	78 000,00	R	78 000,00
UPT 5.56	Allow for profit & attendance if required	%		R	78 000,00	R	
	CARRIED TO SITE SUMMARY					R	

			CLUSTER 2 UPT				
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
	SECTION 6						
	WASTE DISPOSAL , REPURPOSING & RECYCLING						
	BILL NO.1						
	WASTE DISPOSAL , REPURPOSING & RECYCLING						
	GENERAL						
	GENERAL						
	All waste shall be disposed / recycled / repurposed by permitted disposal / recycling / repurposing facilities and safe disposal /recycling /repurposing certificates shall be provided for all waste removed from site						
	The contractor shall maintain and provide records and manifests of waste						
	removed from the site and corresponding waybills and disposal, repurposing and recycling certificates issued by permitted waste facilities						
	The contractor shall provide copies of permits of disposal / recycling / repurposing facilities for client approval prior to transferring of any waste						
	Hazardous Waste						
	Provision is made for performing the required waste classifications and subsequent disposal of any hazardous waste streams encountered during construction works						
	Recycling / Repurposing Return						
	Provision is made for a monetary return to the client for items that are recycled or repurposed. The return is reflected in these bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities have provided a baseline estimate of quantities of materials to be recycled/repurposed and actual quantities will vary based on prevailing site conditions and requirements						
	GENERAL WASTE						
UPT 6.1	General building / building rubble waste to landfill	ton	40,00	R	R		
	RECYCLING / REPURPOSING RETURN						
UPT 6.2	Glass	Kg	140,00	(-R	(-R		
UPT 6.3	Plastics	Kg	140,00	(-R	(-R		
			•				
UPT 6.4	Steel	Kg	140,00	(-R	(-R		
UPT 6.5	Stainless Steel	Kg	140,00	(-R	(-R		
UPT 6.6	Copper	Kg	140,00	(-R	(-R		
UPT 6.7	Aluminium	Kg	140,00	(-R	(-R		
UPT 6.8	Brass	Kg	140,00	(-R	(-R		
UPT 6.9	Iron	Kg	140,00	(-R	(-R		

ITEI	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HAZARDOUS WASTE				
		Provisional Sum				
UPT	6.10 6.11	Hazardous Waste Classification & Disposal Costs	Sum	1,00	R 107 000,00 R 107 000,00	R 107 000,00
UPI	6.11	Allow for profit & attendance if required	%		R 107 000,00	K
		CARRIED TO SITE SUMMARY				R
		CARRIED TO SITE SUMIWARY				N.

	SITE SUMMARY - UPT	PAGE NO.	AMOUNT
	SITE SOMMANT - OF I	PAGE NO.	AWOONT
	PRICE SUMMARY		
1	Preliminaries	160	R
2	Labour Schedule	163	R
3	Building Works	216	R
4	External Works	226	R
5	Provisional Sums	230	R
6	Waste Disposal, Repurposing & Recycling	232	R
	CARRIED TO CLUSTE	R SUMMARY	R

Confidential

GEORGE AIRPORT - GRJ

				CLUSTER 2 GRJ				
ITEM N	10	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
		SECTION 1						
		BILL NO.1				1		
		PRELIMINARIES						
		PREAMBLES FOR TRADES						
		The Model Preambles for Trades (2008 edition) as published by the						
		Association of South African Quantity Surveyors shall be deemed to be						
		incorporated in these bills of quantities and no claims arising from brevity						
		of description of items fully described in the said Model Preambles will be						
		entertained						
		Supplementary preambles are incorporated in these bills of quantities to						
		satisfy the requirements of this project. Such supplementary preambles						
		shall take precedence over the provisions of the Model Preambles						
		The contractor's prices for all items throughout these bills of quantities						
		shall take account of and include for all of the obligations, requirements						
		and specifications given in the Model Preambles and in any						
		supplementary preambles						
		SUPPLEMENTARY PREAMBLES						
		Fixed Charge Items - In general the sum tendered for each fixed charge						
		item will be paid only after the obligations in respect of that item have, in						
		the opinion of the employer/employers agent have been met. Proof of						
		obligations having been met shall be provided to support payment						
		Time Related Items - The amount shall cover all the contractors time						
		related obligations for the entire site irrespective of number of work						
		packages being executed on the site. Payment shall be made for periods						
		of construction works on site. Periods between work packages where						
		there is no construction works will not attract time related charges unless						
		otherwise approved by the employers agent.						
_		Value Related Items - The sum tendered for each value related item will						
		only be paid as a proportion of work completed to date on each						
		certificate. The proportion of the amount paid shall be the same as the						
		proportion of work complete to date which is cumulative cost to date divided by the contact sum						
		Provisional amounts included under value related items shall only be						
		utilised on written instruction of the employers agent and will be paid at						
		net cost plus agreed mark up						
		Specialised PPE is defined as PPE other than 'Standard PPE"						
		Standard PPE is defined as:						
		Overalls/Uniforms, Reflector Jackets, Safety Boots, Gloves, Dust Masks,						
		Goggles, Ear Plugs & Hard Hats all of which must be SABS/SANS compliant						
		2.55 2.7 2.2.1 2.55 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1						
		FIXED CHARGE ITEMS						
CDIA		Constant language Description of 16 and 15 a		4.00				
GRJ 1.1	L 	General Insurance Requirement (Sureties, guarantees, bonds, workman's compensation etc)	Sum	1,00	R	R		
GRJ 1.2	· · · · · ·	Contract works insurance	Sum	1,00	R	R		
			Juili	•		TX.		
GRJ 1.3		Public liability insurance	Sum	1,00	R	R		

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
GRJ 1.4	Other fixed obligations	Sum	1,00	R		R	
	TIME RELATED ITEMS						
	Operation and Maintenance of Facilities on Site, for duration of						
	construction, except where otherwise stated						
GRJ 1.5	Offices (Accommodates up to 5 staff x 1 off)	month	12,00	R		R	
GRJ 1.6	Storage sheds (12m x 2.4m x 1 off - Includes Delivery & Removal)	month	12,00	R		R	
GRJ 1.7	Ablution & Latrine facilities (5 x Male & 3 x Urinal & 3 x Female & 1 x Paraplegic & 2 x Standalone Units)	month	12,00	R		R	
GRJ 1.8	Electric Power & Lighting	month	12,00	R		R	
GRJ 1.9	Water supplies, electric power and communications	month	12,00	R		R	
	Supervision						
	Supervisor/Foreman						
GRJ 1.10	Site Supervision for the duration of the contract (x 1 Resource)	month	12,00	R		R	
	Safety Management						
GRJ 1.11	Provision of full time Construction Site Safety Officer (x 1 Resource)	month	12,00	R		R	
GRJ 1.12	Compliance with the Occupational Health and Safety Act (OHSA) and	month	12,00	R		R	
	Regulations (including the Construction Regulations, 2014)						
GRJ 1.13	Site Security	month	12,00	R		R	
GRJ 1.14	Signage for the site	month	12,00	R		R	
GRJ 1.15	Other time related obligations	month	12,00	R		R	
	VALUE RELATED ITEMS						
GRJ 1.16	Contractual requirements	Sum	1,00	R		R	
GRJ 1.17	Provision for Specialised PPE Requirements	Prov	1,00	R	23 858,92		23 858,9
GRJ 1.18	Allow for profit & attendance if required	%		R	23 858,92	R	
GRJ 1.19	Provision for Location and Protection of Existing Underground Services	Prov	1,00	R	14 315,35	R	14 315,3
GRJ 1.20	Allow for profit & attendance if required	%		R	14 315,35	R	
GRJ 1.21	Provision for Compliance with Environmental requirements	Prov	1,00	R	14 315,35		14 315,3
GRJ 1.22	Allow for profit & attendance if required	%		R	14 315,35	R	
GRJ 1.23 GRJ 1.24	Provision for ACSA Training and Airports Permits (ACSA Issue) Allow for profit & attendance if required	Prov %	1,00	R R	47 717,84 47 717,84		47 717,8
	Materials & Plant						
00115					10.00		
GRJ 1.25 GRJ 1.26	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	13 600,00 13 600,00		13 600,0
	Provisional Sum						
GRJ 1.27	Sundry preliminary requirements	Prov	1,00	R	13 600,00		13 600,0
GRJ 1.28	Allow for profit & attendance if required	%		R	13 600,00	R	

ITEM	NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARRIED TO SITE SUMMARY				R

	1 NO	DESCRIPTION	UNIT	CLUSTER 2 GRJ				
ITEM I				QUANTITY	RATE	AMOUNT		
		SECTION 2						
		SECTION 2 BILL NO.1						
		LABOUR SCHEDULE						
		EADON SCHLEDGE						
		GENERAL						
		labour rates will be utilised where 'dayworks' are deemed required as specified by the employers agent.						
		Daywork - The employer's Agent may schedule day works where appropriate for various classes of labour. The unit rates for labour shall cover overhead charges & profit, insurances, wage costs, salary costs, use of equipment & tools and transport & Allowances costs.						
		Operating Times						
		Normal Hours: Regarded as between 06:00am and 18:00pm weekdays						
		After Hours: Regarded as between 06:00pm and 06:00am weekdays						
		After Hours: Regarded as between 06:00am and 23:59pm Saturdays						
		Sundays & Public Holidays: Regarded as Between 0:00am and 23:59pm on Sundays and Public Holidays						
		Additional Supervisor / Foreman (General Building)						
GRJ 2.	1	Normal Hours	Man	50,00	R	R		
5113 2.		Notified Flours	Hours	30,00	"	"		
GRJ 2.	.2	After Hours		30,00	R	R		
			Hours					
GRJ 2.	.3	Sundays & Public Holidays		10,00	R	R		
			Hours					
		Additional Supervisor / Foreman (Civil Works)						
GRJ 2.	.4	Normal Hours	Man	50,00	R	R		
2.13		Homila Hours	Hours	30,00	1.	''		
GRJ 2.	.5	After Hours		30,00	R	R		
			Hours					
GRJ 2.	.6	Sundays & Public Holidays		10,00	R	R		
			Hours					
		Handyman						
GRJ 2.	.7	Normal Hours	Man	50,00	R	R		
			Hours					
GRJ 2.	.8	After Hours		30,00	R	R		
651.5			Hours	40.05				
GRJ 2.	.9	Sundays & Public Holidays	Man Hours	10,00	R	R		
		Brick Layer						
GRJ 2.	.10	Normal Hours	Man	50,00	R	R		
GRJ 2.	11	A.C	Hours	20.00	D	D		
GKJ Z.	.11	After Hours	Man Hours	30,00	R	R		
GRJ 2.	.12	Sundays & Public Holidays		10,00	R	R		
			Hours	-,				
		Carpontor						
GRJ 2.	12	Carpenter Normal Hours	Man	50,00	R	R		
JIN 2.	.13	Notified Hours	Hours	30,00	``	``		
GRJ 2.	.14	After Hours		30,00	R	R		
			Hours	<u> </u>				
GRJ 2.	.15	Sundays & Public Holidays	Man	10,00	R	R		
			Hours					

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Tiler				
GRJ	2.16	Normal Hours	Man Hours	50,00	R	R
GRJ	2.17	After Hours	Man	30,00	R	R
GRJ	2.18	Sundays & Public Holidays	Hours Man	10,00	R	R
			Hours			R -
		Plasterer				
GRJ	2.19	Normal Hours	Man Hours	50,00	R	R
GRJ	2.20	After Hours	Man Hours	30,00	R	R
GRJ	2.21	Sundays & Public Holidays		10,00	R	R
			Hours			
		Painter				
GRJ	2.22	Normal Hours	Man Hours	50,00	R	R
GRJ	2.23	After Hours	Man	30,00	R	R
GRJ	2.24	Sundays & Public Holidays	Hours Man	10,00	R	R
			Hours			
		Welder				
GRJ	2.25	Normal Hours	Man Hours	50,00	R	R
GRJ	2.26	After Hours	Man	30,00	R	R
GRJ	2.27	Sundays & Public Holidays	Hours Man	10,00	R	R
			Hours			
		General Assistant				
GRJ	2.28	Normal Hours	Man Hours	250,00	R	R
GRJ	2.29	After Hours	Man	30,00	R	R
GRJ	2.30	Sundays & Public Holidays	Hours Man	20,00	R	R
			Hours			
		Shutterhand / Formwork Specialist Installer				
GRJ	2.31	Normal Hours	Man Hours	50,00	R	R
GRJ	2.32	After Hours	Man	30,00	R	R
GRJ	2.33	Sundays & Public Holidays	Hours Man	10,00	R	R
		,	Hours	•		
		Waterproofing Technician / Specialist Installer				
GRJ	2.34	Normal Hours	Man Hours	50,00	R	R
GRJ	2.35	After Hours	Man	30,00	R	R
GRJ	2.36	Sundays & Public Holidays	Hours Man	10,00	R	R
			Hours			
		Ceiling & Partitions Specialist Installer				
GRJ	2.37	Normal Hours	Man	50,00	R	R
GRJ	2.38	After Hours	Hours Man	30,00	R	R
GRJ	2.39	Sundays & Public Holidays	Hours Man	10,00	R	R
-			Hours	-,		

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Flooring Specialist Installer (Vinyl & Epoxy Floors)				
GRJ	2.40	Normal Hours		50,00	R	R
GRJ	2.41	After Hours	Hours Man	30,00	R	R
			Hours			
GRJ	2.42	Sundays & Public Holidays	Man Hours	10,00	R	R
			Hours			
CDI	2.42	Flooring Specialist Installer (Carpets)	Man	F0 00	D	D
GRJ	2.43	Normal Hours	Man Hours	50,00	R	R
GRJ	2.44	After Hours	Man	30,00	R	R
GRJ	2 45	Sundays & Public Holidays	Hours Man	10,00	R	R
GIG	2.43	Sulfidays & Fubility Holladys	Hours	10,00	IV.	K
GRJ	2.46	Flooring Specialist Installer (Timber / Composite Floors) Normal Hours	Man	50,00	R	R
			Hours			
GRJ	2.47	After Hours		30,00	R	R
GRJ	2.48	Sundays & Public Holidays	Hours Man	10,00	R	R
		· ·	Hours			
		Plumber				
GRJ	2.49	Normal Hours	Man	54,00	R	R
			Hours			
GRJ	2.50	After Hours	Man Hours	30,00	R	R
GRJ	2.51	Sundays & Public Holidays		10,00	R	R
			Hours			
		CARRIED TO SITE SUMMARY				R

					CLUSTER 2 GRJ		
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
	SECTION 3 BUILDING WORKS						
	BILL NO.1						
	ALTERATIONS						
	PREAMBLES						
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)						
	SUPPLEMENTARY PREAMBLES						
	GENERAL						
	In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc to ensure the stability of all structures during alterations work.						
	Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephones and other services which may be encountered are not interfered with and notice shall be given to the Employer's Representative if any disconnection or alterations become necessary.						
	Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Employer's Representative, be effectively stopped off and any new connections that may be necessary made with the proper tees, junctions pieces, etc. to the satisfaction of the Employer's Representative.						
	The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any service.						
	MATERIALS FROM ALTERATIONS, ETC						
	Old materials to be carted away						
	Old materials from alterations, where described as to be "removed" as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site.						
	Old materials not te be re-used						
	None of old materials are to be used for new work except where specifically described as being "set aside for re-use". The clients agent will indicate materials that are to be 'set asisde for re-use' at the issuing of each work package						
		_					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Handing over materials				
	Where certain materials or articles from alterations are described as to be "handed over" to the Employer's Representative, such material or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contarctor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the client for the full replacement value thereof, which amount will be deducted from monies due to the Contractor. The clients agent will at issuing of each work				
	package indicate materials that are to be handed over				
	EXISTING BUILDINGS				
	The existing buildings will be in use and occupied during the progress of the contract and the contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance. Contractors are also to note that due to the buildings being occupied the repairs and renovations works will be requiered to be executed in a specific order as will be determined by the Employer' Representative.				
	SIZE PERTAINING TO EXISTING WORK				
	The Contractor is advised to check all dimensions affecting the existing buildings on the site and he will be held soley responsible for the correctness of sizes of all new work.				
	All sizes given in relation to the existing work are approximate				
	MAKING GOOD DAMAGED WORK				
	The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing				
	FORMING NEW OPENINGS OR ALTERING				
	Openings in existing walls				
	Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in situ concrete or prestressed concrete lintels including all reinforcement, formwork, turning pieces, etc, building up jamms or portion of openings as described with brickwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all around on both sides and into reveals as described.				
	BUILDING UP OPENINGS				
	Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described.				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		PAINTWORK				
		Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere.				
		TEMPORARY BARRIERS, SCREENS, ETC				
		Temporary barriers, screens, etc including removal on completion				
GRJ	3.1.1	Temporary hoarding of galvanised diamond mesh covered with shade cloth 2.7m high and removal later	m	20,00	R	R
GRJ	3.1.2	Extra over for galvanised mild steel double gate and frame1 511 x 2032mm high	No	2,00	R	R
GRJ	3.1.3	Drywall barricade not exceding 2.4m high of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum plasterboard and finished with two coats interior quality PVA emulsion paint, including corners, ends, etc	m	40,00	R	R
GRJ	3.1.4	Extra over preceding item for hollow core single door 813 x 2032mm high, including steel frame, two-lever mortice lock, primer and two coats paint	No	2,00	R	R
GRJ	3.1.5	Hoarding between concrete floor and ceiling formed of suitable timber framing with 22mm thick shutter board	m2	10,00	R	R
GRJ	3.1.6	Metal sheeting hoarding 2m high fixed to steel posts at equal centres including paint to external face of sheets and posts.	m2	10,00	R	R
GRJ	3.1.7	Temporary 12mm shutter board protection lining to walls, floors and ceilings including removing after completion and making good to walls, floors and ceilings	m2	20,00	R	R
		REMOVAL OF EXISTING WORK				
		Breaking up and removing mass concrete including reinforcing and carting to approved disposal area within the airport.				
GRJ	3.1.8	Stairs with landings, waist, treads, risers, ramps, surface beds, strip footing, reinforced concrete etc	m3	20,00	R	R
		Breaking down and removing existing concrete work including all steel reinforcing, steel corners bolts etc and carting to approved disposal area within the airport.				
GRJ	3.1.9	Concrete Columns, beams and slabs not exceeding 3m high	m3	10,00	R	R
GRJ	3.1.10	Manholes, bases, strip footings etc not exceeding 1.5m deep	m3	10,00	R	R
GRJ	3.1.11	Surface beds not exceeding 100mm thick	m3	10,00	R	R
GRJ	3.1.12	Surface beds exceeding 100mm thick and not exceeding 150mm thick	m3	10,00	R	R
		Breaking down and removing brickwork including all steel door frames, window frames etc and carting to approved disposal area within the airport.				
GRJ	3.1.13	Half brick wall	m2	40,00	R	R
GRJ	3.1.14	One brick wall	m2	40,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Taking up and removing vinyl floor coverings, tiles, carpets, etc				
GRJ	3.1.15	Ceramic / Porcelain / Marble tiles to floor including preparing floor for new floor covering	m2	120,00	R	R
GRJ	3.1.16	Vinyl / plastic / carpet floor covering including preparing floors for new floor coverings	m2	50,00	R	R
		Hacking up and removing off coverings to walls, columns, partitionwalls etc. including preparing surfaces for new finishes				
GRJ	3.1.17	Tiles from walls, columns	m2	20,00	R	R
GRJ	3.1.18	Wall paper covering from walls, columns etc.	m2	10,00	R	R
		Taking out / off and removing sundry metalwork				
GRJ	3.1.19	Stainless steel / mild steel barrier not exceeding 150mm diameter including vertical supports and making good to concrete to recieve new finish	m	40,00	R	R
		Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)				
GRJ	3.1.20	Timber single door and steel frame not exceeding 2,5m ²	No	10,00	R	R
GRJ	3.1.21	Timber double door and steel frame exceeding 2,5m² and not exceeding 5m²	No	7,00	R	R
GRJ	3.1.22	Timber double door and steel frame exceeding 5m ² and not exceeding 7.5m ²	No	5,00	R	R
GRJ	3.1.23	Glazed aluminium/steel/timber window not exceeding 2,5m²	No	10,00	R	R
GRJ	3.1.24	Glazed aluminium/steel/timber window exceeding 2,5m² and not exceeding 5m²	No	5,00	R	R
GRJ	3.1.25	Glazed aluminium/steel/timber window exceeding 5m² and not exceeding 7.5m²	No	4,00	R	R
		Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
GRJ	3.1.26	Suspended ceilings, including suspension grid, hangers, cornices, etc not exceeding 3.0m high	m2	120,00	R	R
GRJ	3.1.27	Drywall partitions not exceeding 3.0m high, including doors, glazed borrowed lights, etc	m	70,00	R	R
GRJ	3.1.28	Toilet partitioning not exceeding 3.0 m high	m2	20,00	R	R
		Taking out and removing sundry joinery work, fittings, etc				
GRJ	3.1.29	Skirtings - various widths	m	50,00	R	R
GRJ	3.1.30	Timber sills - various widths	m	10,00	R	R
GRJ	3.1.31	Timber wall mounted cupboard - Measured by surface area covered on the wall	m2	10,00	R	R
GRJ	3.1.32	Timber floor mounted cupboard - Measured by surface area covered on the floor	m2	10,00	R	R

ITE	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ	3.1.33	Timber sink cupboard, including sink and disconnecting & terminating waste pipe - Measured by surface area covered on the floor	m2	10,00	R	R
GRJ	3.1.34	Timber/stone counters	m2	10,00	R	R
		Taking out/off and removing sundry metalwork				
GRJ	3.1.35	Steel pipe handrails from walls, including brackets, and making good plaster finish	m	10,00	R	R
		Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc				
GRJ	3.1.36	Not exceeding 100mm thick Screed from floors	m2	100,00	R	R
GRJ	3.1.37	Internal plaster from walls and columns not exceeding 3m high	m2	100,00	R	R
GRJ	3.1.38	Internal plaster from ceilings and beams not exceding 3m high	m2	100,00	R	R
GRJ	3.1.39	External plaster from walls, columns and beams not exceeding 3m high	m2	100,00	R	R
		POWER WASH ON EXISTING WALLS				
GRJ	3.1.40	Power wash on existing walls (Internal and external walls) as per Employer Agent instruction	m2	120,00	R	R
		Taking down and removing				
GRJ	3.1.41	Mesh fence with steel posts and droppers	m2	240,00	R	R
GRJ	3.1.42	Steel palisade fence with steel posts and droppers	m2	240,00	R	R
GRJ	3.1.43	Concrete palisade fence with concrete posts and droppers	m2	240,00	R	R
GRJ	3.1.44	Security fence with 45 degree barbed wire overhang with posts and droppers	m2	240,00	R	R
GRJ	3.1.45	Half brick boundary or yard wall	m2	60,00	R	R
GRJ	3.1.46	One brick boundary or yard wall	m2	60,00	R	R
GRJ	3.1.47	Clearvu Fence not exceeding 2,0m high with steel posts	m	60,00	R	R
		Lift and removing pre-cast concrete including bedding, etc				
GRJ	3.1.48	60mm Interlocking paving	m2	220,00	R	R
GRJ	3.1.49	80mm Interlocking paving	m2	220,00	R	R
GRJ	3.1.50	50mm Cement or brick paving	m2	220,00	R	R
GRJ	3.1.51	Fig.1 Kerbing	m	40,00	R	R
GRJ	3.1.52	Fig.2 Kerbing	m	40,00	R	R
GRJ	3.1.53	Fig.3 Kerbing	m	40,00	R	R
GRJ	3.1.54	Fig.4 Kerbing	m	40,00	R	R
GRJ	3.1.55	Fig.5 Kerbing	m	40,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRI	3.1.56	Fig.6 Kerbing	m	40,00	R	R
				,		
	3.1.57	Fig.6 Kerbing - Mountable	m	40,00	R	R
GRJ	3.1.58	Fig.7 Kerbing	m	40,00	R	R
GRJ	3.1.59	Fig.8 Kerbing	m	40,00	R	R
GRJ	3.1.60	Fig.8b Kerbing - Mountable	m	40,00	R	R
GRJ	3.1.61	Fig.8c Kerbing - Mountable	m	40,00	R	R
GRJ	3.1.62	Fig.12 Kerbing	m	40,00	R	R
GRJ	3.1.63	Fig.14 Kerbing	m	40,00	R	R
GRJ	3.1.64	Fig.16 Kerbing	m	40,00	R	R
		PREPARATORY WORK TO EXISTING SURFACES				
GRJ	3.1.65	Hacking faces of existing concrete columns, beams, etc to receive plaster	m2	10,00	R	R
GRJ	3.1.66	Making good defects in existing screeded floors with "an SABS approved self leveling screed"	m2	10,00	R	R
		MAKING GOOD OF FINISHES ETC				
		Making good face brickwork				
		Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond				
GRJ	3.1.67	Ends of half brick walls	m	10,00	R	R
GRJ	3.1.68	Ends of one brick walls	m	10,00	R	R
GRJ	3.1.69	Faces of walls where half brick cross walls removed	m	10,00	R	R
GRJ	3.1.70	Faces of walls where one brick cross walls removed	m	10,00	R	R
		Making good gypsum plasterboard ceilings and timber brandering				
GRI	3.1.71	Ceilings in patches	m2	10,00	R	R
	3.1.72	Ceilings where half brick walls removed	m	10,00	R	R
GRJ	3.1.73	Ceilings where one brick walls removed	m	10,00	R	R
		Making good cement screeds				
GRJ	3.1.74	Not exceeding 100mm Thick on floors in patches	m2	10,00	R	R
GRJ	3.1.75	Floors where half brick walls removed	m	10,00	R	R
GRJ	3.1.76	Floors where one brick walls removed	m	10,00	R	R
		Making good internal cement plaster				
GRI	3.1.77	Walls in patches	m2	10,00	R	R
	3.1.78	Concrete ceilings in patches	m2	10,00	R	R
GRJ	3.1.79	Walls where half brick walls removed	m	10,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
GRJ	3.1.80	Walls where one brick walls removed	m	10,00	R		R	
GRJ	3.1.81	Concrete ceilings where half brick walls removed	m	10,00	R		R	
GRJ	3.1.82	Concrete ceilings where one brick walls removed	m	10,00	R		R	
		OPENINGS THROUGH EXISTING WALLS ETC						
		Breaking out for and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish and making good.						
GRJ	3.1.83	Opening through half brick wall	m2	8,00	R		R	
GRJ	3.1.84	Opening through one brick wall	m2	8,00	R		R	
		Materials & Plant						
	3.1.85 3.1.86	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	14 900,00 14 900,00		14 900,0
		Provisional Sum						
	3.1.87 3.1.88	Provision for sundry Alterations Works Allow for profit & attendance if required	Sum %	1,00	R R	14 900,00 14 900,00		14 900,0
		CARRIED TO SECTION SUMMARY					R	

ITEM N	NO DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.2				
	EARTHWORKS				
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done.				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site	2			
	Filling				
	Notwithstanding the reference to prescribed multiple handling in clause 2 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material	L			
	SITE CLEARANCE ETC				
	Site clearance				
GRJ 3.2	2.1 Stripping average 300mm thick layer of top soil and stockpile on site	m2	190,00	R	R
	, , , , ,				
	EXCAVATION, RISK OF COLLAPSE, FILLING, ETC				
	Excavation in earth not exceeding 2m deep including carting to a stockpile				
GRJ 3.2	2.2 To trenches	m3	50,00	R	R
GRJ 3.2	2.3 To holes	m3	5,00	R	R
GRJ 3.2		m3	10,00	R	R
	Excavation in earth exceeding 2m deep but ne. 4m including carting to	a .			
	stockpile				
GRJ 3.2	2.5 To trenches	m3	20,00	R	R
GRJ 3.2	2.6 To holes	m3	3,00	R	R
GRJ 3.2	2.7 Reduced levels under floors	m3	10,00	R	R
	EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER				
	Extra over trench and hole excavations in earth for excavation in				
	Extra over trench and note excavations in earth for excavation in				
GRJ 3.2	2.8 EO: Soft rock	m3	5,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ 3.2.9	EO: Hard rock	m3	5,00	R	R
			3,00		
	Extra over all excavations for carting away				
GRJ 3.2.10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	50,00	R	R
	Risk of collapse to sides of excavation n.e 2m deep				
GRJ 3.2.11	To trenches	m2	40,00	R	R
GRJ 3.2.12	To holes	m2	10,00	R	R
	Risk of collapse to sides of excavation exceeding 2m but n.e 3.5m deep				
GRJ 3.2.13	To trenches	m2	40,00	R	R
GRJ 3.2.14	To holes	m2	10,00	R	R
	Keeping excavations free of water				
GRJ 3.2.15	Keeping excavations free of water	Item	1,00	R	R
	FILLING ETC				
	Earth filling obtained from excavations and/or prescribed stock on site compacted to 93 % Mod AASHTO density piles				
GRJ 3.2.16	Under foundations, floors, steps, pavings, etc	m3	20,00	R	R
	Earth filling supplied (G5) by contractor compacted to 93% Mod AASHTO density				
GRJ 3.2.17	Under floors, steps, paving, foundations, manholes etc	m3	20,00	R	R
	Compaction of surfaces				
GRJ 3.2.18	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	100,00	R	R
	Prescribed density tests on filling				
GRJ 3.2.19	"Modified AASHTO Density" test	No	1,00	R	R
GRJ 3.2.20	"Field Density" test, including "Optimum Moisture Content" (four readings per test)	No	1,00	R	R
	SOIL POISONING				
	Soil insecticide				
GRJ 3.2.21	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	50,00	R	R
GRJ 3.2.22	To bottoms and sides of trenches etc	m2	50,00	R	R
	Materials & Plant				
GRJ 3.2.23	Provision for Sundry Materials & Plant	Prov	1,00	R 2 975,00	
GRJ 3.2.24	Allow for profit & attendance if required	%		R 2 975,00	R

ITEN	NO N	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Provisional Sum				
GRJ	3.2.25 3.2.26	Sundry Earthworks	Sum	1,00	R 2 975,00 R 2 975,00	R 2 975,00
GRJ	3.2.26	Allow for profit & attendance if required	%		R 2 975,00	R
		CARRIED TO SECTION SUMMARY	,			R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.3				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	222422				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	CURRITARY DRIVANCIES				
	SUPPLEMENTARY PREAMBLES				
	Cost of tests				
	The costs of making, storing and testing of concrete test cubes as required				
	under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the employers agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. PRICES FOR CONCRETE ARE TO INCLUDE FOR ALL TESTS AND CERTIFICATES				
	Formwork				
	Descriptions of formwork shall be deemed to include use and waste only				
	(except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before reuse The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
	Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"In order to accommodate the custom in some regions to give formwork to sides of beams, isolated beams, etc separately from formwork to the soffits				
	thereof, the items in respect of formwork to beams, isolated beams, etc are given under the headings of "formwork to sides", "formwork to soffits" and "formwork to sides and soffits" UNREINFORCED CONCRETE				
	15 Mpa / 20mm mass concrete				
GRJ 3.3.1	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	10,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		20 Mpa/20mm vibrated reinforced concrete				
GRJ	3.3.2	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	9,00	R	R
GRJ	3.3.3	To columns	m3	6,00	R	R
GRJ	3.3.4	To slabs	m3	6,00	R	R
GRJ	3.3.5	To beams	m3	6,00	R	R
GRJ	3.3.6	Walls	m3	6,00	R	R
		25 Mpa/20mm vibrated reinforced concrete		-		
GRJ	3.3.7	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	6,00	R	R
GRJ	3.3.8	To columns	m3	6,00	R	R
GRJ	3.3.9	To slabs	m3	6,00	R	R
GRJ	3.3.10	To beams	m3	6,00	R	R
GRJ	3.3.11	Walls	m3	6,00	R	R
		30MPa/20mm vibrated reinforced concrete				
GRJ	3.3.12	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	3,00	R	R
GRJ	3.3.13	To columns	m3	3,00	R	R
GRJ	3.3.14	To slabs	m3	3,00	R	R
GRJ	3.3.15	To beams	m3	3,00	R	R
GRJ	3.3.16	Walls	m3	3,00	R	R
		35 Mpa/20mm vibrated reinforced concrete				
GRJ	3.3.17	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	1,00	R	R
GRJ	3.3.18	To columns	m3	1,00	R	R
GRJ	3.3.19	To slabs	m3	1,00	R	R
GRJ	3.3.20	To beams	m3	1,00	R	R
GRJ	3.3.21	Walls	m3	1,00	R	R
		40 Mpa/20mm vibrated reinforced concrete				
GRJ	3.3.22	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	1,00	R	R
GRJ	3.3.23	To columns	m3	1,00	R	R
GRJ	3.3.24	To slabs	m3	1,00	R	R
GRJ	3.3.25	To beams	m3	1,00	R	R
GRJ	3.3.26	Walls	m3	1,00	R	R

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		TEST CUBES				
GRJ	3.3.27	Making and testing 150 x 150 x 150mm concrete strength test cube, testing and providing test results	No	1,00	R	R
		CONCRETE SUNDRIES				
		Finishing top surfaces of concrete smooth with a wood float				
GRI	3.3.28	Surface beds, slabs,beams, walls, paving etc	m2	50,00	R	R
0.13	0.0.20		2	30,00		
		Finishing top surfaces of concrete smooth with a steel trowel				
GRJ	3.3.29	Surface beds, slabs,beams, walls, paving etc	m2	50,00	R	R
		Finishing top surfaces of concrete smooth with a power float				
GRJ	3.3.30	Surface beds, slabs,beams, walls, paving etc	m2	50,00	R	R
		Scabble existing concrete surfaces, wire brush corroded rebar and apply "Prostruct 616" or similar approved wet to dry concrete adhesive				
GRJ :	3.3.31	Side of existing concrete	m2	20,00	R	R
		Finishing top surfaces of concrete with and including a nonslip brushed concrete finish including wave-like lines parallel				
GRJ :	3.3.32	To falls	m2	20,00	R	R
		35MPa non-shrink grout				
GRJ :	3.3.33	Bedding approximately 30mm thick under 300 x 300mm base plate, including chamfered edges all round	m3	1,00	R	R
		Core through 250mm thick Reinforced concrete walls, slab, etc. with a diamond saw or other mechanical means to form including grouting with "Epidermix 395" liquid grouting compound				
GRJ	3.3.34	40mm Diameter opening	No	7,00	R	R
GRJ :	3.3.35	50mm Diameter opening	No	6,00	R	R
GRJ :	3.3.36	110mm Diameter opening	No	5,00	R	R
GRJ :	3.3.37	200mm Diameter opening	No	4,00	R	R
GRJ	3.3.38	250mm Diameter opening	No	3,00	R	R
	3.3.39	350mm Diameter opening	No	2,00	R	R
	3.3.40	450mm Diameter opening	No	1,00	R	R
		Rough formwork to sides		_,,,,		
CDI	2 2 11			E0.00	D	D
	3.3.41	Edges , risers, ends and reveals not exceeding 300 mm high	m	50,00	R	R
GRJ	3.3.42	To ground beams	m2	20,00	R	R
		Smooth formwork to sides including supports etc.				
GRI	3.3.43	To beams	m2	20,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ 3.3.44	To columns	m2	20,00	R	R
GRJ 3.3.45	To pits	m2	20,00	R	R
GRJ 3.3.46	To ramps	m2	20,00	R	R
GRJ 3.3.47	To walls	m2	20,00	R	R
	Smooth formwork to soffits				
				_	
GRJ 3.3.48	Beams propped up exceeding 3,5m and not exceeding 5m high	m2	20,00	R	R
GRJ 3.3.49	Slab propped up exceeding 3,5m and not exceeding 5m high	m2	50,00	R	R
	Formwork to sloping top surfaces (pitch exceeding 35 degrees)				
GRJ 3.3.50	Concrete humps/bunding, etc not exceeding 300mm wide	m	10,00	R	R
	ISOLATION JOINTS ETC				
	Joint sealants				
	Expansion joints with softboard between vertical concrete surfaces				
GRJ 3.3.51	Silicone sealing compound in 10 - 50 mm wide joints between units	m	10,00	R	R
0,0,0,0,0	including backing strips, bond breaker, primer etc	""	10,00		
GRJ 3.3.52	Polysulphide sealing compound in 10 - 50 mm wide joints between units including backing strips, bond breaker, primer etc	m	10,00	R	R
	Saw cut joints				
GRJ 3.3.53	50 x 3mm Saw cut joints in top of concrete reamed out to 8mm including	m	10,00	R	R
	10mm diameter backing cord and 8mm wide x 13mm deep "Dow Corning 813C" silicone sealant or equal approved		·		
	REINFORCEMENT (PROVISIONAL)				
	Mild tensile steel reinforcement to structural concrete work				
CDI 2.2.54			0.25	D.	
GRJ 3.3.54	25mm Diameter bars	ton	0,25	R	R
GRJ 3.3.55	20mm Diameter bars	ton	0,25	R	R
GRJ 3.3.56	16mm Diameter bars	ton	0,25	R	R
GRJ 3.3.57	12mm Diameter bars	ton	0,25	R	R
GRJ 3.3.58	10mm Diameter bars	ton	0,25	R	R
GRJ 3.3.59	8mm Diameter bars	ton	0,25	R	R
			-, -		
	High tensile steel reinforcement to structural concrete work				
GRJ 3.3.60	25mm Diameter bars	ton	0,25	R	R
GRJ 3.3.61	20mm Diameter bars	ton	0,25	R	R
GRJ 3.3.62	16mm Diameter bars	ton	0,25	R	R
GRJ 3.3.63	12mm Diameter bars	ton	0,25	R	R
CDI 2.2.CC	10mm Diameter hars		0.35	D	D.
GRJ 3.3.64	10mm Diameter bars	ton	0,25	R	R

	3.3.65					
		8mm Diameter bars	ton	0,25	R	R
		Fabric reinforcement				
GRJ	3.3.66	Type 100 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	14,00	R	R
GRJ	3.3.67	Type 193 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	14,00	R	R
GRJ	3.3.68	Type 245fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	14,00	R	R
GRJ	3.3.69	Type 311 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	14,00	R	R
GRJ	3.3.70	Type 395 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	14,00	R	R
		Materials & Plant				
	3.3.71 3.3.72	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 11 925,00 R 11 925,00	
OIG	3.3.72	Allow for profit & attendance if required	70		11 925,00	IX.
		Provisional Sum				
	3.3.73 3.3.74	Sundry Concrete Formwork & Reinforcement Works Allow for profit & attendance if required	Sum %	1,00	R 11 925,00 R 11 925,00	
			 			
		CARRIED TO SECTION SUMMARY				R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.4				
		MASONRY				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		BRICKWORK				
		Sizes in descriptions				
		Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
		Hollow walls				
		Descriptions of hollow walls shall be deemed to include leaving every fifth				
		perpend of the bottom course of the external skin open as a weep hole				
		Face bricks				
		Bricks shall be ordered timeously to obtain uniformity in size and colour				
		Pointing				
		Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
		BRICKWORK				
		Brickwork of NFX clay bricks (14 MPa nominal compressive strength) in				
		class II mortar in stretcher bond				
GRJ	3.4.1	Piers	m3	3,00	R	R
CDI	3.4.2	Half brick walls	m2	50,00	R	R
	3.4.3	One brick walls	m2	70,00	R	R
	3.4.4	Cavity walls - Made up of Two half brick skins	m2	20,00	R	R
CDI	3.4.5	280mm Hollow walls of two half brick skins with cavities filled in with and	m2	15,00	R	R
GKJ	J. T .J	including 30MPa/20mm concrete	1112	13,00	K	IX
GRJ	3.4.6	280mm Hollow walls of two half brick skins circular on plan with cavities filled in with and including 25MPa/20mm concrete (elsewhere)	m2	15,00	R	R
GRJ	3.4.7	Cutting toothings and bonding new brickwork to existing	m	10,00	R	R
		Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar				
		in stretcher bond				

IEIV	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ	3.4.8	Piers	m3	3,00	R	R
GRJ	3.4.9	Half brick walls	m2	120,00	R	R
GRJ	3.4.10	One brick walls	m2	140,00	R	R
GRJ	3.4.11	Cavity walls - Made up of two half brick skins	m2	70,00	R	R
GRJ	3.4.12	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	50,00	R	R
GRJ	3.4.13	280mm Hollow walls of two half brick skins circular on plan with cavities filled in with and including 25MPa/20mm concrete	m2	50,00	R	R
GRJ	3.4.14	Cutting toothings and bonding new brickwork to existing	m	50,00	R	R
		FACE BRICKWORK				
		Provide the prime cost of R 9 600.00 per thousand face bricks delivered to site pointed with flush horizontal and vertical joints				
GRJ	3.4.15	Extra over brickwork for face brickwork in foundation walls, ramp, etc	m2	20,00	R	R
GRJ	3.4.16	Extra over brickwork for face brickwork	m2	30,00	R	R
GRJ	3.4.17	Half brick face brick walls in class II mortar pointed on both sides	m2	30,00	R	R
GRJ	3.4.18	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	10,00	R	R
GRJ	3.4.19	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm external diameter	No	10,00	R	R
		Steel bar reinforcement				
GRJ	3.4.20	8mm Diameter mild steel bars built in horizontally	ton	0,50	R	R
		Prestressed precast lintels				
GRJ	3.4.21	110 x 75mm Lintels in lengths not exceeding 3m	m	20,00	R	R
GRJ	3.4.22	110 x 75mm Lintels exceeding 3,0m but not exceeding 4,5m	m	10,00	R	R
		Fabric Reinforcement				
GRJ	3.4.23	75mm Galvanised brickforce suitable for half brick walls	m	140,00	R	R
GRJ	3.4.24	150mm Galvanised brickforce suitable for one brick walls	m	140,00	R	R
		Galvanised hoop iron cramps, ties, etc				
GRJ	3.4.25	30 x 1,6mm Roof tie 1500mm long with one end fixed to timber and other end built into brickwork	No	10,00	R	R
		Bagging of 1:3 cement and sand mixture				
GRJ	3.4.26	On brick walls	m2	30,00	R	R

ITEI	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Materials & Plant				
GRJ	3.4.27	Provision for Sundry Materials & Plant	Prov	1,00	R 11 925,00	R 11 925,00
	3.4.28	Allow for profit & attendance if required	%	,	R 11 925,00	R
		Provisional Sum				
GRJ	3.4.29	Sundry Masonry Works	Sum	1,00	R 11 925,00	R 11 925,00
GRJ	3.4.30	Allow for profit & attendance if required	%		R 11 925,00	R
						D
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.5				
	DILL NO.3				
	WATERPROOFING				
	DREAMPLES				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Waterproofing				
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course				
GRJ 3.5.1	In walls	m2	50,00	R	R
	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
GRJ 3.5.2	Under surface beds, etc	m2	140,00	R	R
	Three coats paint sealer "plascon wallseal" or equal approved without membrane				
GRJ 3.5.3	On parapet walls	m2	50,00	R	R
	Two coats "Brixeal" or equal approved bitumen emulsion waterproof coating				
GRJ 3.5.4	On walls	?	F0 00	D	D
3.5.4	On walls	m2	50,00	R	R
	JOINT SEALANTS ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
GRJ 3.5.5	In joints between window or door frames and concrete or brickwork	m	10,00	R	R
	WATERPROOFING TO ROOFS ETC				
	TORCH-ON WATERPROOFING				
	4mm Thick "Derbigum SP4" or similar approved waterproofing membrane including laps, turn-ups, turndowns, etc and preparing and priming concrete or screeded surfaces laid in accordance with the manufacturers instruction				
GRJ 3.5.6	On flat roofs / floors.	m2	70,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ 3.5.7	On turn-ups and turn-downs exceeding 300mm girth	m2	20,00	R	R
GRJ 3.5.8	On sloping roofs	m2	100,00	R	R
GRJ 3.5.9	On tops and sides of inverted beams	m2	20,00	R	R
GRJ 3.5.10	On bottoms and sides of floor ducts, channels, etc	m2	20,00	R	R
GRJ 3.5.11	On bottoms and sides of box gutters	m2	20,00	R	R
GRJ 3.5.12	On bottoms and sides of plant boxes	m2	10,00	R	R
GRJ 3.5.13	Sealing edges to brickwork or concrete	m	10,00	R	R
GRJ 3.5.14	Sealing edges to brickwork or concrete including trowelled mastic bead	m	10,00	R	R
GRJ 3.5.15	Additional membrane 300mm girth at internal and external angles	m	10,00	R	R
GRJ 3.5.16	Dressing and sealing around pipe not exceeding 200mm external diameter, including additional membrane, gussets, collars, etc	No	5,00	R	R
GRJ 3.5.17	On internal surfaces of 300 x 300 x 300mm deep sump, catchpit, etc	No	5,00	R	R
GRJ 3.5.18	On concrete flat roofs including all turn-ups and turndowns and sealing edges where required.	m2	45,00	R	R
	PROTECTIVE STONE DRESSING				
	19mm Crushed stone dressing evenly spread with larger stones around				
	<u>outlets</u>				
GRJ 3.5.19	25mm Thick on waterproofing to flat roofs	m2	50,00	R	R
	PROTECTIVE ROOFING PAINT				
	Two coats "Silvakote" or similar approved bituminous aluminium paint				
GRJ 3.5.20	On waterproofing to roofs	m2	50,00	R	R
GRJ 3.5.21	On inside of existing box gutters	m2	50,00	R	R
	PROTECTIVE ROOFING SHEETING				
	Type 40 bituminous fibreglass felt laid loose				
GRJ 3.5.22	On waterproofing to roofs	m2	10,00	R	R
	WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC				
	Silicone sealing compound including backing cord, bond breaker, primer,				
	etc				
GRJ 3.5.23	6 x 10mm In saw cut joints in floors	m	10,00	R	R
GRJ 3.5.24	6 x 10mm In expansion joints in tiled walls etc	m	10,00	R	R
GRJ 3.5.25	10 x 15mm In expansion joints in tiled floors etc	m	10,00	R	R
GRJ 3.5.26	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	10,00	R	R

ITE	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ	3.5.27	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	10,00	R	R
		Mastic sealing compound including backing cord, bond breaker, primer, etc				
GRJ	3.5.28	6 x 10mm In saw cut joints in floors	m	10,00	R	R
GRJ	3.5.29	6 x 10mm In expansion joints in tiled walls etc	m	10,00	R	R
GRJ	3.5.30	10 x 15mm In expansion joints in tiled floors etc	m	10,00	R	R
GRJ	3.5.31	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	10,00	R	R
GRJ	3.5.32	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	10,00	R	R
		Materials & Plant				
	3.5.33 3.5.34	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 5 950,00 R 5 950,00	
		Provisional Sum				
	3.5.35 3.5.36	Sundry Waterproofing Works Allow for profit & attendance if required	Sum %	1,00	R 5 950,00	
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.6				
	DILL NO.0				
	CARPENTRY & JOINERY				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	<u>Description</u>				
	The term "planted on" shall mean the countersunk screwing of one timber member to another with the heads of screws sunk and pelleted.				
	The term "plugged" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted				
	Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing				
	Descriptions of floors, ceilings, joinery, etc shall be deemed to include for all square cutting				
	Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.				
	Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc				
	DOORS, ETC				
	Semi-solid flush panel doors with commercial veneer both sides suitable for painting and hung to steel, aluminium, timber frames				
GRJ 3.6.1	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	10,00	R	R
GRJ 3.6.2	Provide the prime cost of R 3 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	10,00	R	R
	40mm Thick semi-solid flush panel doors with sapele hardwood veneer both sides suitable for varnish				
GRJ 3.6.3	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	10,00	R	R
GRJ 3.6.4	Provide the prime cost of R 3 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	11,00	R	R
	44mm Thick solid door suitable for varnish or painting and hung to steel, aluminium or timber frames				
GRJ 3.6.5	Provide the prime cost of R 3000.00 per door leaf & hinges for single door openings	No	10,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ	3.6.6	Provide the prime cost of R 6 500.00 per Double door in two equal leaves with rebated meeting stiles including hinges.	No	10,00	R	R
		"Bitcon Industries" or similar approved Class A 1 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames				
GRJ	3.6.7	Provide the prime cost of R 5000.00 for Class A fire door for single door opening including single rebated pressed steel frame for 115mm brick wall, hinges and preparing frame for door closer and lock	No	5,00	R	R
GRJ	3.6.8	Provide the prime cost of R 8 500.00 for Class A fire double door for double door opening including double rebated pressed steel frame for 230mm brick wall, hinges and preparing frame for door closer and lock	No	5,00	R	R
		"Bitcon Industries" or similar approved Class B 2 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames				
GRJ	3.6.9	Provide the prime cost of R 6 500.00 for Class B fire door for single door opening including single rebated pressed steel frame for 115mm brick wall, hinges and preparing frame for door closer and lock	No	6,00	R	R
GRJ	3.6.10	Provide the prime cost of R 12 500.00 for Class B fire double door for double door opening including double rebated pressed steel frame for 230mm brick wall, hinges and preparing frame for door closer and lock	No	5,00	R	R
		Materials & Plant				
	3.6.11 3.6.12	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 11 925,00 R 11 925,00	
		Provisional Sum				
GRJ	3.6.13	Sundry Carpentry & Joinery Works	Sum	1,00	R 11 925,00	R 11 925,00
GRJ	3.6.14	Allow for profit & attendance if required	%		R 11 925,00	R
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.7				
	CEILINGS, PARTITIONS & ACCESS FLOORING				
	PREAMBLES				
	THE WINDLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	SUPPLEIVIENTART PREAIVIBLES				
	Fixing				
$\overline{}$	Items described as "nailed" shall be deemed to be fixed with hardened				
	steel nails or pins, or to be shot-pinned, to bricwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to				
	fibre, plastic or metal plugs at not exceeding 500mm cetres, and where described as "bolted", the bolts have been given elsewhere.				
	Ceilings				
	Unless otherwise described ceilings shall be deemed to be horizontal				
	Bulkheads				
	Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. The purpose is either to conceal services or to create architectural features				
	Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items				
	Of ceilings Unless otherwise described bulkheads shall be deemed to be horizontal				
	along the length Steel components				
	All steel components for ceilings, partitions, etc are to be galvinised in accordance with SANS 121				
	SUSPENDED CEILINGS				
	9mm "Rhino" gypsum plasterboard with taped and skimmed joints				
GRJ 3.7.1	Ceilings installed using propriety framing system all according to manufacturers specifications	m2	50,00	R	R
GRJ 3.7.2	Vertical ceilings installed using propriety framing system all according to manufacturers specifications	m2	40,00	R	R
GRJ 3.7.3	Horizontal bulkheads installed using propriety framing system all according to manufacturers specifications	m2	40,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		600 x 1200mm panels on pre painted (pre-coated) suspension system including main and cross tees necessary hangers, grids, etc				
		Provide the prime cost of R 400.00/m2 for suspended ceiling system				
GRJ	3.7.4	Ceilings suspended below soffits	m2	50,00	R	R
GRJ	3.7.5	Horizontal bulkheads suspended below concrete soffits	m2	40,00	R	R
GRJ	3.7.6	Sloping bulkheads suspended below concrete soffits	m2	50,00	R	R
GRJ	3.7.7	Extra over ceiling for opening for sprinkler head	No	10,00	R	R
GRJ	3.7.8	Extra over ceiling for opening for down lighter	No	10,00	R	R
GRJ	3.7.9	Extra over ceiling for 600 x 1 200mm light fitting	No	10,00	R	R
		600mm x 600mm panels on pre painted (pre-coated) exposed tee suspension system				
		Provide the prime cost of R 400.00/m2 for suspended ceiling system				
GRJ	3.7.10	Ceilings suspended below soffits	m2	60,00	R	R
GRJ	3.7.11	Horizontal bulkheads suspended below concrete soffits	m2	50,00	R	R
GRJ	3.7.12	Sloping bulkheads suspended below concrete soffits	m2	50,00	R	R
GRJ	3.7.13	Extra over ceiling for opening for sprinkler head	No	10,00	R	R
GRJ	3.7.14	Extra over ceiling for opening for down lighter	No	10,00	R	R
GRJ	3.7.15	Extra over ceiling for 600 x 600mm light fitting	No	10,00	R	R
		Cornices to suspended ceilings				
		Provide the prime cost of R 80.00 per meter for cornices				
GRJ	3.7.16	Pre-painted / coated cornices plugged	m	30,00	R	R
		Shadowline to suspended ceilings				
		Provide the prime cost of R 80.00 per meter for shadowline trim				
GRJ	3.7.17	Pre-painted / coated shadowline trim fixed	m	30,00	R	R
		Insulation				
GRJ	3.7.18	Isotherm 100mm thick polyester thermal ceiling insulation laid on ceilings (measured nett)	m2	100,00	R	R
		PARTITIONS				
		"76mm wide Rhino-Drywall System " steel stud partitioning with "12mm thick Rhino Wall board" on both sides including skirtings and top track all as per manufacturers specifications				
GPI	3.7.19	Partitioning up to 2 600mm high with bottom and top tracks plugged	m2	70,00	R	R
	3.7.20					
		Partitioning up to 2 900mm high with bottom and top tracks plugged	m2	60,00	R	R
GRJ	3.7.21	Partitioning up to 3 500mm high with bottom and top tracks plugged	m2	50,00	R	R

ITEM	I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		Provide the prime cost of R 2000.00 per door leaf & hinges for single door						
		<u>openings</u>						
GRJ 3	3.7.22	Extra over partitioning for Single Door hung to pressed steel door frame including additional studding, trimming, etc.	No	10,00	R		R	
		Provide the prime cost of R 3 500.00 for double door openings						
GRJ 3	3.7.23	Extra over partitioning for Double Door hung to pressed steel door frame including additional studding, trimming, etc.	No	2,00	R		R	
		Materials & Plant						
GRJ 3	3.7.24	Provision for Sundry Materials & Plant	Prov	1,00	R	11 925,00	R	11 925,00
	3.7.25	Allow for profit & attendance if required	%		R	11 925,00		-
		Provisional Sum						
001	2 7 26			1.00	_	44.005.00	,	44.005.00
	3.7.26 3.7.27	Sundry Ceilings, Partitions & Access Flooring Works Allow for profit & attendance if required	Sum %	1,00	R R	11 925,00 11 925,00		11 925,00
					-			
		CARRIED TO SECTION SUMMARY					R	

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.8				
		FLOOR COVERINGS, WALL LININGS, ETC				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		Fixing				
		TAME				
		Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc				
		Surface preparation, priming, curing, cleaning etc				
		Descriptions of the items below are deemed to include all necessary				
		preparation, priming, mixing, curing, cleaning etc as prescribed by the manufacturers of the various products				
		FLOOR COVERINGS				
		Provide the prime cost amount of R500.00 per m2 for supply and delivery of vinyl floor finishes laid with approved adhesive on screeds in accordance with manufacturers instructions				
GRJ 3	3.8.1	On floors	m2	90,00	R	R
GRJ 3	3.8.2	On treads and risers of stairs	m2	30,00	R	R
		High traffic epoxy floor paint 2.5 to 3mm thick as per specialists				
		<u>specifications</u>				
GRJ 3	3.8.3	On floors	m2	90,00	R	R
		Provide the prime cost amount of R500.00 per m2 for supply and delivery of carpet tiles laid with approved adhesive in accordance with				
		manufacturers instructions				
GRJ 3	3.8.4	On floors	m2	90,00	R	R
GRJ 3	3.8.5	On treads and risers of stairs	m2	30,00	R	R
		Materials & Plant				
GRJ 3	3.8.6	Provision for Sundry Materials & Plant	Prov	1,00	R 5 950,00	R 5 950,00
GRJ 3		Allow for profit & attendance if required	%	, -	R 5 950,00	
		Provisional Sum				
GRJ 3	3.8.8	Sundry Floor Coverings Wall Linings etc Works	Sum	1,00	R 5 950,00	R 5 950,00
GRJ 3		Allow for profit & attendance if required	%	-,	R 5 950,00	
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.9				
	IRONMONGERY				
	PREAMBLES				
	FREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	General				
	General				
	Corrosion proof ironmongery shall be provided as far as possible and shall				
	be fitted by professional carpenter				
	Proprietary items				
	When a continue to the control of th				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-heading preceding the items				
	are given in sub-neading preceding the items				
	Prices are to be based on the specific products/articles specified. If				
	tenders wish to offer alternative products/articles for certain items, these				
	items are to be clearly marked and the alternative specification given with				
	supporting brochures etc clarifying the features of the products/articles				
	offered.				
	On request returnable samples are to be provided to the employer's				
	representative for consideration.				
	representative for consideration.				
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by				
	suffixes in accordance with the following list:				
	BS Satin bronze lacquered				
	CH Chromium plated				
	SC Satin chromium plated				
	SE Silver enamelled				
	GE Grey enamelled				
	AN Anodised natural				
	AS Anodised silver				
	AB Anodised bronze AG Anodised gold				
	ABL Anodised black				
	PB Polished brass				
	PL Polished and lacquered				
	PT Epoxy coated				
	SD Sanded				
	LOCKS, ETC				
	Describe the prime and one of STEC CO and Co. 11 de la				
	Provide the prime cost amount of R750.00 each for cylinder locksets				
	installed complete				
GRJ 3.9.1	On single doors	No	40,00	R	R
GRJ 3.9.2	On double doors	No	20,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HINGES, BOLTS, ETC				
	2.0.2	Hinges			_	
GRJ	3.9.3	Provide the prime cost amount of R350.00 for 100 x 75mm butt hinges (per pair) installed complete	No	70,00	R	R
		PUSH PLATES AND KICKING PLATES				
		Push plates, kick plates etc				
GRJ	3.9.4	Provide the prime cost amount of R750.00 each for Push Plates & Kick Plates installed complete	No	20,00	R	R
		DOOR CLOSERS				
		Door Closers				
GRJ	3.9.5	Provide the prime cost amount of R3000.00 each for door closers installed complete	No	40,00	R	R
		Panic Bolts etc				
GRJ	3.9.6	Provide the prime cost amount of R2500.00 each for panic bolts for single doors installed complete	No	10,00	R	R
GRJ	3.9.7	Provide the prime cost amount of R5500.00 each for panic bolts for double doors installed complete	No	3,00	R	R
		HANDLES				
		Handles etc				
GRJ	3.9.8	Provide the prime cost amount of R1000.00 each for door handles installed complete	No	30,00	R	R
		CATCHES, CABIN HOOKS, ETC				
		Cabin Hooks etc				
GRJ	3.9.9	Provide the prime cost amount of R300.00 each for cabin & coat hooks installed complete	No	8,00	R	R
		BATHROOM FITTINGS				
		Toilet Roll Holder				
GRJ	3.9.10	Provide the prime cost amount of R1000.00 each for toilet roll holder plugged to brickwork.	No	10,00	R	R
		Soap Dispenser				
GRJ	3.9.11	Provide the prime cost amount of R1000.00 each for soap dispenser	No	10,00	R	R
		plugged to brickwork.				
		Stainless Steel Grab Rail				
GRJ	3.9.12	Provide the prime cost amount of R1000.00 each for stainless steel grab rails plugged to brickwork.	No	5,00	R	R
		<u>SUNDRIES</u>				
		"Solid"				

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
GRJ 3	3.9.13	Door stop (CZ8731CH) fixed with counter sunk-sunk bolt into anchor bolt	No	10,00	R		R	
		Materials & Plant						
GRJ 3	3.9.14	Provision for Sundry Materials & Plant	Prov	1,00	R	8 925,00	R	8 925,00
	3.9.15	Allow for profit & attendance if required	%	,	R	8 925,00	R	,
		Provisional Sum						
	3.9.16 3.9.17	Sundry Floor Ironmongery Works Allow for profit & attendance if required	Sum %	1,00	R R	8 925,00 8 925,00		8 925,00
GKJ	5.9.17	Allow for profit & attendance if required	70		N	8 925,00	N.	
		CARRIED TO SECTION SUM	ANAARY				R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.10				
	METALWORK				
	THE TRANSPORT				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	Quantity surveyors (2000 cultion)				
	SUPPLEMENTARY PREAMBLES				
	Descriptions of bolts, anchors, etc				
	Descriptions of holts shall be deemed to include nuts and weekers				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and				
	bolts shall be deemed to include nuts, wahers and mortices in brickwork				
	or concrete				
	Items described as "holed for bolt(s)" shall be deemed to exclude the				
	bolts unless otherwise described				
	Items described as "plugged" shall be deemed to include screwing to				
	fibre, plastic or metal plugs at not exceeding 600mm cetres				
	71 1 0 0				
	DOOR FRAMES, DOORS, ETC				
	Galvinised pressed steel door frames				
	Gaiviniseu presseu steel door frames				
	1,6mm Thick single rebated heavy duty frame for half brick wall complete				
	with butt hinges and including setting up, building in, filling back of frame				
	with cement mortar, etc				
2212424				_	_
GRJ 3.10.1	Frame for door 813 x 2032mm high with three 100mm steel hinges per leaf	No	50,00	R	R
	lea				
GRJ 3.10.2	Frame for door 1613 x 2032mm high with three 100mm steel hinges per	No	30,00	R	R
	leaf		•		
	1,6mm Thick single rebated heavy duty frame for one brick wall complete				
	with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc				
	with cement mortar, etc				
GRJ 3.10.3	Frame for door 813 x 2032mm high with three 100mm steel hinges per	No	50,00	R	R
	leaf		•		
GRJ 3.10.4	Frame for door 1613 x 2032mm high with three 100mm steel hinges per	No	30,00	R	R
	leaf				
	Materials & Plant				
GRJ 3.10.5	Provision for Sundry Materials & Plant	Prov	1,00	R 67 625,00	
GRJ 3.10.6	Allow for profit & attendance if required	%		R 67 625,00	R
	Dravicional Sum				
	Provisional Sum				
GRJ 3.10.7	Sundry Metalworks	Sum	1,00	R 67 625,00	R 67 625,0
GRJ 3.10.8	Mark up provision on sundry Metalorks	%	,	R 67 625,00	
				· ·	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	PILL NO 11				
	BILL NO.11				
	PLASTERING				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Granolithic				
	Method				
	The marked in the considerable to the contract of the contract				
	The method to be used shall be either the monolithic method or the				
	bonded method				
	Preparation				
	For granolithic applied monolithically, the concrete floor shall be swept				
	clean after bleeding of the concrete has ceased and the slab has begun to				
	stiffen; any remaining bleed water shall be removed and the granolithic				
	applied immediately thereafter. For granolithic to be bonded to the floor				
	slab after it has hardened, the slab surface shall be hacked (preferably by				
	mechanical means) until all laitance, dirt, oil, etc is dislodged and swept				
	clean of all loose matter. The slab shall then be wetted and kept damp for				
	at least six hours before applying the granolithic				
	Mix				
	Granolithic shall attain a compressive strength of at least 41MPa. The				
	coarse aggregate shall comply with SANS 1083 and shall generally be				
	capable of passing a 10mm mesh sieve. Where the thickness of the				
	granolithic exceeds 25mm, the size of the coarse aggregate shall be				
	increased to the maximum size compatible with the thickness of the				
	granolithic				
	Barrala				
	Panels				
	Granolithic shall be laid in panels not exceeding 14m² for monolithic				
	finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m²				
	for all external granolithic. Wherever possible, panels shall be square but				
	at no time should the length of the panel exceed 1,5 times its width				
	at no time should the length of the panel exceed 1,5 times its width				
	Where possible joints between panels shall be positioned over joints in				
	the floor slab and shall be at least 3mm wide through the full thickness of				
	the finish, separated by strips of wood or fibreboard and finished with V-				
	joints				
	Laying				
	Monolithic granolithic shall be applied to the partially set slab and				
	thoroughly compacted and lightly wood floated to the required levels				
	and subject to the required levels				
	·	i	i l		

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Bonded granolithic shall be applied to the slab after applying a 1:1 sand- and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be throughly compacted and lightly wood floated to the required levels				
		After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated				
		Curing, seasoning and protection				
		Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying				
		Colour				
		Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour				
		CEMENT SCREED				
		Preparation				
		Screed to be steel trowelled, no dry mix allowed. Screeds to be level and even with high points ground down. Test samples to be provided of screeds. Moisture content to be checked with hydrometer (moisture not to exceed 75%) or tramex meter (moisture not to exceed 60%). Reading to be taken on average of every 30m. Test samples of screed to be provided. Where applicable, screed to falls to floor drain.				
		Mix				
		1:3 Cement/sand screed mix (SABS 471 and 1083 approved) level 1 standard, 25mpa.				
		SCREED				
		Screed to falls				
		Screeds wood floated, on concrete				
GRJ	3.11.1	25mm Thick on floors and landings	m2	140,00	R	R
GRJ	3.11.2	30mm Thick on floors and landings	m2	50,00	R	R
GRJ	3.11.3	30mm Thick on floors on waterproofing membrane	m2	40,00	R	R
GRJ	3.11.4	Average 30mm thick on floors with upper surface to falls	m2	10,00	R	R
GRJ	3.11.5	Average 30mm thick on floors with upper surface to falls and currents	m2	10,00	R	R
GRJ	3.11.6	Average 40mm thick on roofs with upper surface to falls	m2	10,00	R	R
GRJ	3.11.7	Average 40mm thick on roofs with upper surface to falls and currents	m2	10,00	R	R
GRJ	3.11.8	25mm Thick on treads and risers of stairs including reedings	m2	10,00	R	R
GRJ	3.11.9	30mm Thick on treads and risers of stairs	m2	10,00	R	R
GRJ	3.11.10	30mm Thick on narrow widths not exceeding 300mm wide	m2	10,00	R	R
GRJ	3.11.11	Reedings in finish on ramps	m2	10,00	R	R

ITEN	и NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ	3.11.12	50 x 50mm Triangular fillets against walls, kerbs, etc	m	10,00	R	R
		Screeds steel trowelled, on concrete				
GRJ	3.11.13	25mm Thick on floors and landings	m2	140,00	R	R
GRJ	3.11.14	30mm Thick on floors and landings	m2	50,00	R	R
GRJ	3.11.15	30mm Thick on floors on waterproofing membrane	m2	40,00	R	R
GRJ	3.11.16	Average 30mm thick on floors with upper surface to falls	m2	10,00	R	R
GRJ	3.11.17	Average 30mm thick on floors with upper surface to falls and currents	m2	10,00	R	R
GRJ	3.11.18	Average 40mm thick on roofs with upper surface to falls	m2	10,00	R	R
GRJ	3.11.19	Average 40mm thick on roofs with upper surface to falls and currents	m2	10,00	R	R
GRJ	3.11.20	25mm Thick on treads and risers of stairs including reedings	m2	10,00	R	R
GRJ	3.11.21	30mm Thick on treads and risers of stairs	m2	10,00	R	R
GRJ	3.11.22	30mm Thick on narrow widths not exceeding 300mm wide	m2	10,00	R	R
GRJ	3.11.23	Reedings in finish on ramps	m2	10,00	R	R
GRJ	3.11.24	50 x 50mm Triangular fillets against walls, kerbs, etc	m2	10,00	R	R
		GRANOLITHIC				
		Untinted granolithic on concrete				
	3.11.25	25mm Thick on floors and landings	m2	100,00	R	R
GRJ	3.11.26	30mm Thick on floors and landings	m2	50,00	R	R
GRJ	3.11.27	50mm Thick on floors and landings	m2	40,00	R	R
GRJ	3.11.28	Average 30mm thick on floors with upper surface to falls	m2	10,00	R	R
GRJ	3.11.29	Average 30mm thick on floors with upper surface to falls and currents	m2	10,00	R	R
GRJ	3.11.30	Average 40mm thick on roofs with upper surface to falls	m2	10,00	R	R
GRJ	3.11.31	Average 40mm thick on roofs with upper surface to falls and currents	m2	10,00	R	R
GRJ	3.11.32	25mm Thick on treads and risers of stairs including reedings	m2	10,00	R	R
GRJ	3.11.33	30mm Thick on treads and risers of stairs	m2	10,00	R	R
GRJ	3.11.34	30mm Thick on narrow widths not exceeding 300mm wide	m2	10,00	R	R
GRJ	3.11.35	Reedings in finish on ramps	m2	10,00	R	R
GRJ	3.11.36	Skirtings 100mm high	m	10,00	R	R
	3.11.37	Skirtings 100mm high stepped over treads and risers	m	10,00	R	R
		EXTERNAL PLASTER		•		
		Class I cement plaster on brickwork	+			
GRJ	3.11.38	On walls	m2	220,00	R	R

ITEN	и NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Class I cement plaster on concrete				
GRJ	3.11.39	On walls / columns	m2	100,00	R	R
GRJ	3.11.40	On soffits / beams	m2	100,00	R	R
		INTERNAL PLASTER				
		Class I cement plaster on brickwork				
GRJ	3.11.41	On walls	m2	220,00	R	R
		Class I cement plaster on concrete				
GRJ	3.11.42	On walls/ columns	m2	100,00	R	R
GRJ	3.11.43	On soffits / beams	m2	100,00	R	R
		Rhinolite skim plaster 20mm thick with smooth trowel finish				
GRI	3.11.44	On partition walls	m2	110,00	R	R
	3.11.45	On plaster board ceilings	m2	110,00	R	R
	3.11.46	On bulkheads				
GKJ	5.11.40		m2	110,00	R	R
		CORNER PROTECTORS, DIVIDING STRIPS, ETC				
GRJ	3.11.47	3 x 25mm Flat section galvanised mild steel dividing strip set on edge in screed between different floor finishes	m	60,00	R	R
GRJ	3.11.48	3 x 25mm Flat section brass dividing strip or waterbar set on edge in screed between different floor finishes	m	60,00	R	R
		Materials & Plant				
GRI	3.11.49	Provision for Sundry Materials & Plant	Prov	1,00	R 5 950,00	R 5 950,00
	3.11.50	Allow for profit & attendance if required	%	1,00	R 5 950,00	
		Provisional Sum				
	3.11.51	Sundry Plasterworks	Sum	1,00	R 5 950,00	
GRJ	3.11.52	Allow for profit & attendance if required	%		R 5 950,00	R
		CARRIED TO SECTION SUMMARY				R

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.12				
		TILING				
		PREAMBLES				
		The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
		SUPPLEMENTARY PREAMBLES				
		3011 ELMENTANT I NEAMBLES				
		Fixing				
		Descriptions of tiling on brick or concrete walls, columns, etc shall be				
		deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat. Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with adhesives and grouts from the "tal Goldstar" range or equal approved.				
		WALL TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic wall tiles				
		fixed with adhesive to:				
GRJ	3.12.1	On walls	m2	100,00	R	R
GRJ	3.12.2	On narrow widths	m2	30,00	R	R
		Describe the prime and array of P 500 00 and 2 for a small in well tiles				
		Provide the prime cost amount of R 500.00 per m2 for porcelain wall tiles fixed with adhesive to:				
GRJ	3.12.3	On walls	m2	100,00	R	R
						_
GRJ	3.12.4	On narrow widths	m2	30,00	R	R
		FLOOR TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic floor tiles fixed with adhesive to:				
GRJ	3.12.5	On floors	m2	134,00	R	R
GRJ	3.12.6	On narrow widths	m2	30,00	R	R
GRJ	3.12.7	On floors landings in patterns	m2	50,00	R	R
3.3		Provide the prime cost amount of R 500.00 per m2 for porcelain floor tiles fixed with adhesive to:		-,		
GRJ	3.12.8	On floors	m2	130,00	R	R
CDI	3.12.9	On parrow widths	m2	30.00	D	P
GKJ	5.12.9	On narrow widths	m2	30,00	R	R
GRJ	3.12.10	On floors landings in patterns	m2	50,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SUNDRIES				
		Aluminium dividing strips				
		Provide the prime cost amount of R 75.00 per m for dividing strips:				
GRJ	3.12.11	Flat section dividing strips between tiles	m	20,00	R	R
GRJ	3.12.12	L-section dividing strips between tiles	m	20,00	R	R
		Aluminium / Stainless steel/ Brass/ corner protectors, stair nosings, expansion joint strips, etc				
		Provide the prime cost amount of R 200.00 per m for trims:				
GRJ	3.12.13	Corner protectors	m	10,00	R	R
GRJ	3.12.14	Stair nosings	m	10,00	R	R
	3.12.15	Single expansion joint strips with vinyl rubber inlay	m	10,00	R	R
GRJ	3.12.16	Double expansion joint strips with vinyl rubber inlay	m	10,00	R	R
		Materials & Plant				
	3.12.17 3.12.18	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 14 900,00	
		Provisional Sum				
CDI	2 12 10	Conductible World	Corre	1.00	D 14 000 00	D 14 000 00
	3.12.19 3.12.20	Sundry Tiling Works Mark up provision on sundry Tiling Works	Sum %	1,00	R 14 900,00 R 14 900,00	
		CARRIED TO SECTION SUMMARY				R
		CARRIED TO SECTION SUMINARY				N .

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.13				
	DILIBADING & DDAINAGE				
	PLUMBING & DRAINAGE				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model				
	Preambles for Trades as published by the Association of South African				
	Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	SOFFLEWIENTART FREAWIDLES				
	Wire gratings				
	Descriptions of gutter outlets etc shall be deemed to include wire balloon				
	gratings				
	Sterrangeter showneds				
	Stormwater channels				
	Descriptions of channels shall be deemed to include necessary excavation,				
	surface preparation, compaction, etc, and disposal of surplus material on				
	site				
	Stainless steel basins, sinks, wash troughs, urinals, etc				
	Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)				
	Type 450 (1770)				
	Stainless steel for basins, quality sinks, wash troughs, institutional				
	equipment, etc shall be Type 304 (18/8)				
	Units shall have standard aprons on all exposed edges and tiling keys				
	against walls where applicable				
	Sealing of edges				
	Outer edges of sinks, basins, etc are to be sealed against adjacent surfaces				
	with approved silicone				
	uPVC pipes and fittings				
	Sewer and drainage pipes and fittings shall be jointed and sealed with				
	butyl rubber rings				
	,				
	Soil, waste and vent pipes and fittings shall be solvent weld jointed or				
	sealed with butyl rubber rings				
	200				
	uPVC pressure pipes and fittings				
	Pipes of 50mm diameter and smaller shall be plain ended with solvent				
	welded uPVC loose sockets and fittings				
	0				
	Pipes of 63mm diameter and greater shall have sockets and spigots with				
	push-in type integral rubber ring joints. Bends shall be uPVC and all other				
	fittings shall be cast iron, all with similar push-in type joints				
	High density nelyothylane (UDDs) since and fixings				
	High density polyethylene (HDPe) pipes and fittings				
	Pipes shall be type IV and of the class specified with "Plasson" or				
1	"Alprene" compression fittings				

DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Copper pipes				
described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016				
Connex pines are to be installed in accordance with the latest revision of				
the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition				
Reducing fittings				
Where fittings have reducing ends or branches they are described as				
"reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained				
Fining of all and				
Fixing of pipes				
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level				
Paper wrapping to pipes				
Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings				
Disinfection of water pipework				
Water pipework is to be disinfected at completion in accordance with SABS 1200L				
"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Ptv) Ltd.				
Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps				
Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc				
Prices for wrapping of pipes shall include for all work as described to couplings in the length				
Laying, backfilling, bedding, etc of pipes				
Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
	Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016 Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition Reducing fittings Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained Fixing of pipes Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level Paper wrapping to pipes Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings Disinfection of water pipework Water pipework is to be disinfected at completion in accordance with SABS 1200L "Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd. "Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd. Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps Couplings and fittings to pipes shall include for all work as described to couplings in the length Laying, backfilling, bedding, etc of pipes	Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall not be bent. Class 1 (thin walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings shall be "Cobra Watertech" type. Capillary solder fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016 Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. 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Rates are to include for wrapping around joints and fittings Disinfection of water pipework Water pipework is to be disinfected at completion in accordance with SABS 1200L "Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd. Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc	Copper pipes Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. 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Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps Couplings and fittings to pipes shall include for all work as described to couplings in the length Laying, backfilling, bedding, etc of pipes

Where no manufacturers' instructions exist, pipes shall be laid in accordance with each of the following: SAS 2001. The committee drainings SAS 2001. Sevents SAS 2000. Sevents pressure pipelines SAS 2000. Sevents shall be backfilled in accordance with SABS 12000B: Carthworks (Pipe trenches) Pipes shall be bedded in accordance with SABS 12000B: Earthworks (Pipe trenches) Unless otherwise described bedding of rigid pipes shall be Class B bedding General Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for pipes, etc. are given separately) Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for pipes, etc. are given separately) Descriptions of pipes bald in and including trenches and of inspection chambers, catchptis, etc. shall be deemed to include exaustion, bedding, buddilling, compaction and disposal of surplus material on site Descriptions of service pipes and flexible connecting pipes shall be deemed to include or include connections to appe, etc. and to steel pipes (adaptors for connections to appe, etc.) Descriptions of service pipes and flexible connecting pipes shall be deemed to include for joints to coll pipes As-built drawings Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract/package the contractor shall hand these drawings to the employer's representative for reproducing onto the originals for handing over to the employer SAMTARY FITTINGS NOTE: All fittings butting up against wall or floor finishes or fitting into proferored openings in simber tops are to be seeled with an approved all purpose silicone sealan. Prices for sinsis described as drop in are to include for preparing the worktop to receive the fitting and securely fitting sims to worktops using clips provided. The contractor is not provide worktops using clips provided the contractor is not provide worktops using clips provided to the	ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
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Unless otherwise described bedding of rigid pipes shall be Class B bedding General Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to stems and splay out ends Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction and disposal of surplus material on site Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, disterns, etc and to steel pipes (adaptors for connections to taps, disterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately) Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes As-built drawings Where required, the contractor shall prepare an updated set of as-built drawings, at completion of the contract/package the contractor shall hand these drawings to the employer's representative for reproducing onto the originals for handing over to the employer SANITARY FITTINGS NOTE: All fittings butting up against wall or floor finishes or fitting into preformed openings in timber tops are to be sealed with an approved all purpose silicone sealant. Prices for sinks described as drop in are to include for preparing the worktop to receive the fitting and securely fixing sinks to worktops using clips provided. The contractor is to provide worktop manufacturers with details of cut outs to ensure that the cut openings are sufficiently accurate to provide proper engagement for these clips Note: Stainless steel for urinals, basins, sinks, etc, shall be type 304 (18/8)							
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204 Stainless Steel			Note: Stainless steel for urinals, basins, sinks, etc, shall be type 304 (18/8)				
1306 Matthew Meet			304 Stainless Steel				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Provide the prime cost amount of R 1800.00 each for wash troughs:				
GRJ 3.13.1	Single bowl wash trough. Unit to be fixed to the wall with a pair of Stainless Steel wallfixing brackets.	No	3,00	R	R
	Provide the prime cost amount of R 3200.00 each for wash troughs:				
GRJ 3.13.2	Double bowl wash trough. Unit to be fixed to the wall with a pair of Stainless Steel wallfixing brackets.	No	3,00	R	R
	Sinks				
	Provide the prime cost amount of R 1800.00 each for sinks:				
GRJ 3.13.3	Stainless steel single end bowl sink and drainer set in top of timber / stone counter top (Elsewhere measured).	No	3,00	R	R
	Provide the prime cost amount of R 3200.00 each for wash troughs:				
GRJ 3.13.4	Stainless steel double bowl sink and drainer set in top of timber / stone counter top (Elsewhere measured).	No	3,00	R	R
	Wash hand basin				
GRJ 3.13.5	Provide the prime cost amount of R 2200.00 each for wall mounted basin	No	3,00	R	R
	Wash hand basin "Paraplegic"				
GRJ 3.13.6	Provide the prime cost amount of R 2200.00 each for wall mounted paraplegic basin	No	2,00	R	R
	<u>Urinals</u>				
GRJ 3.13.7	Provide the prime cost amount of R 5000.00 each for wall mounted urinals	No	3,00	R	R
	Toilets etc				
GRJ 3.13.8	Provide the prime cost amount of R 4000.00 each for toilets installed complete	No	5,00	R	R
GRJ 3.13.9	Provide the prime cost amount of R 5000.00 each for paraplegic toilets installed complete		3,00	R	R
	WASTE UNIONS ETC				
	"Cobra Watertech" or equal approved				
GRJ 3.13.10	40mm Wash trough waste	No	10,00	R	R
	TRAPS ETC				
	PVC				
GRJ 3.13.11	Rubber waste reseal "P" 32x40mm (basin)	No	10,00	R	R
	TAPS, VALVES, ETC				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Taps, showers etc				
GRJ	3.13.12	Provide the prime cost amount of R 2000.00 each for taps and sink mixers	No	4,00	R	R
GRJ	3.13.13	Provide the prime cost amount of R 1500.00 each for shower heads	No	3,00	R	R
GRJ	3.13.14	Provide the prime cost amount of R 2000.00 each for shower mixers	No	3,00	R	R
GRJ	3.13.15	22mm Brass Non-return valve	No	5,00	R	R
		SANITARY PLUMBING				
		uPVC soil and vent pipes				
GRJ	3.13.16	40mm Diameter Pipes	m	20,00	R	R
GRJ	3.13.17	50mm Diameter Pipes	m	20,00	R	R
GRJ	3.13.18	75mm Diameter Pipes	m	20,00	R	R
GRJ	3.13.19	110mm Diameter Pipes	m	20,00	R	R
		Extra over uPVC soil and vent pipes for fittings				
GRJ	3.13.20	40mm Bend	No	10,00	R	R
GRJ	3.13.21	40mm Inspection bend	No	10,00	R	R
GRJ	3.13.22	40mm Junction	No	10,00	R	R
GRJ	3.13.23	50mm BSP adaptor	No	10,00	R	R
GRJ	3.13.24	50mm Bend	No	10,00	R	R
GRJ	3.13.25	50mm Inspection bend	No	10,00	R	R
GRJ	3.13.26	50mm Junction	No	10,00	R	R
GRJ	3.13.27	50mm Access bend	No	10,00	R	R
GRJ	3.13.28	50mm vent valve	No	10,00	R	R
GRJ	3.13.29	50mm Two way vent valve	No	10,00	R	R
GRJ	3.13.30	50mm Inspection junction	No	10,00	R	R
GRJ	3.13.31	75mm Bend	No	10,00	R	R
	3.13.32	75mm Inspection bend	No	10,00	R	R
	3.13.33	75mm Junction	No	10,00	R	R
GRJ	3.13.34	75mm Inspection junction	No	10,00	R	R
GRJ	3.13.35	75mm Reducing junction	No	10,00	R	R
	3.13.36	75mm Inspection reducing junction	No	10,00	R	R
	3.13.37	75mm Reducer	No	10,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ	3.13.38	110mm Bend	No	10,00	R	R
GRJ	3.13.39	110mm Inspection bend	No	10,00	R	R
GRJ	3.13.40	110mm Junction	No	10,00	R	R
GRJ	3.13.41	110mm Inspection junction	No	10,00	R	R
GRJ	3.13.42	110mm Reducing junction	No	10,00	R	R
GRJ	3.13.43	110mm Inspection reducing junction	No	10,00	R	R
GRJ	3.13.44	110mm Reducer	No	10,00	R	R
GRJ	3.13.45	110mm Pan connector	No	10,00	R	R
GRJ	3.13.46	110mm Two way vent valve	No	10,00	R	R
		Testing				
GRJ	3.13.47	Testing waste pipe system	Item	1,00	R	R
		WATER SUPPLIES		-		
		Class 0 copper pipes with brass compression couplings				
GRJ	3.13.48	15mm Pipes	m	20,00	R	R
GRJ	3.13.49	15mm Pipes chased into brickwork or concrete	m	20,00	R	R
GRJ	3.13.50	22mm Pipes	m	20,00	R	R
GRJ	3.13.51	22mm Pipes chased into brickwork or concrete	m	20,00	R	R
GRJ	3.13.52	28mm Pipes	m	20,00	R	R
GRJ	3.13.53	28mm Pipes chased into brickwork or concrete	m	20,00	R	R
GRJ	3.13.54	35mm Pipes	m	20,00	R	R
GRJ	3.13.55	35mm Pipes chased into brickwork or concrete	m	20,00	R	R
GRJ	3.13.56	42mm Pipes	m	20,00	R	R
GRJ	3.13.57	54mm Pipes	m	20,00	R	R
	3.13.58	67mm Pipes	m	20,00	R	R
	3.13.59	76mm Pipes	m	20,00	R	R
	3.13.60					R
GNJ	5.15.00	108mm Pipes	m	20,00	R	IN .
		Extra over Class 0 copper pipes for capillary fittings				
GRJ	3.13.61	15mm Fittings	No	10,00	R	R
GRJ	3.13.62	22mm Fittings	No	10,00	R	R
GRJ	3.13.63	28mm Fittings	No	10,00	R	R
GRJ	3.13.64	35mm Fittings	No	10,00	R	R
GRJ	3.13.65	42mm Fittings	No	10,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ	3.13.66	54mm Fittings	No	10,00	R	R
GRJ	3.13.67	67mm Fittings	No	10,00	R	R
GRJ	3.13.68	76mm Fittings	No	10,00	R	R
GRJ	3.13.69	108mm Fittings	No	10,00	R	R
		Extra over Class 0 copper pipes for brass compression fittings				
GRJ	3.13.70	15mm Fittings	No	10,00	R	R
GRJ	3.13.71	22mm Fittings	No	10,00	R	R
GRJ	3.13.72	28mm Fittings	No	10,00	R	R
GRJ	3.13.73	35mm Fittings	No	10,00	R	R
GRJ	3.13.74	42mm Fittings	No	10,00	R	R
GRJ	3.13.75	54mm Fittings	No	10,00	R	R
GRJ	3.13.76	67mm Fittings	No	10,00	R	R
GRJ	3.13.77	76mm Fittings	No	10,00	R	R
GRJ	3.13.78	108mm Fittings	No	10,00	R	R
		Class 12.5 "HDPE" Pipes				
GRJ	3.13.79	20mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	20,00	R	R
GRJ	3.13.80	32mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	20,00	R	R
GRJ	3.13.81	40mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	20,00	R	R
GRJ	3.13.82	50mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	20,00	R	R
GRJ	3.13.83	75mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	20,00	R	R
GRJ	3.13.84	90mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	20,00	R	R
GRJ	3.13.85	110mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	20,00	R	R
		Extra over "HDPE" for fittings				
GRJ	3.13.86	20mm Diameter Straight Coupling	No	10,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ 3.13.87	20mm Diameter Reducing Coupling	No	10,00	R	R
GRJ 3.13.88	20mm Diameter Equal Tee	No	10,00	R	R
GRJ 3.13.89	20mm Diameter Male Adaptor	No	10,00	R	R
GRJ 3.13.90	20mm Diameter 90 Degree Elbow	No	10,00	R	R
GRJ 3.13.91	40mm Diameter Straight Coupling	No	10,00	R	R
GRJ 3.13.92	40mm Diameter Reducing Coupling	No	10,00	R	R
GRJ 3.13.93	40mm Diameter Equal Tee	No	10,00	R	R
GRJ 3.13.94	40mm Diameter Male Adaptor	No	10,00	R	R
GRJ 3.13.95	40mm Diameter 90 Degree Elbow	No	10,00	R	R
GRJ 3.13.96	50mm Diameter Straight Coupling	No	10,00	R	R
GRJ 3.13.97	50mm Diameter Reducing Coupling	No	10,00	R	R
GRJ 3.13.98	50mm Diameter Equal Tee	No	10,00	R	R
GRJ 3.13.99	50mm Diameter Male Adaptor	No	10,00	R	R
GRJ 3.13.10	0 50mm Diameter 90 Degree Elbow	No	10,00	R	R
GRJ 3.13.10	1 75mm Diameter Straight Coupling	No	10,00	R	R
GRJ 3.13.10	2 75mm Diameter Reducing Coupling	No	10,00	R	R
GRJ 3.13.10	3 75mm Diameter Equal Tee	No	10,00	R	R
GRJ 3.13.10	4 75mm Diameter Male Adaptor	No	10,00	R	R
GRJ 3.13.10	5 75mm Diameter 90 Degree Elbow	No	10,00	R	R
GRJ 3.13.10	6 90mm Diameter Straight Coupling	No	10,00	R	R
GRJ 3.13.10	7 90mm Diameter Reducing Coupling	No	10,00	R	R
GRJ 3.13.10	8 90mm Diameter Equal Tee	No	10,00	R	R
GRJ 3.13.10	9 90mm Diameter Male Adaptor	No	10,00	R	R
GRJ 3.13.11	0 90mm Diameter 90 Degree Elbow	No	10,00	R	R
GRJ 3.13.11	1 110mm Diameter Straight Coupling	No	10,00	R	R
GRJ 3.13.11	2 110mm Diameter Reducing Coupling	No	10,00	R	R
GRJ 3.13.11	3 110mm Diameter Equal Tee	No	10,00	R	R
GRJ 3.13.11	4 110mm Diameter Male Adaptor	No	10,00	R	R
GRJ 3.13.11	5 110mm Diameter 90 Degree Elbow	No	10,00	R	R
	ELECTRIC WATER HEATERS				
	"Kwikot" or similar approved including all fittings, adaptors,				
	couplings, etc, for connection to the relevant piping.				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE	,	AMOUNT
GRJ	3.13.116	Provide the prime cost amount of R 3000.00 each for undercounter geysers	No	2,00	R		R	
GRJ	3.13.117	Provide the prime cost amount of R 7000.00 each for 100 litre geysers	No	2,00	R		R	
GRJ	3.13.118	Provide the prime cost amount of R 9000.00 each for 150 litre geysers	No	1,00	R		R	
GRJ	3.13.119	Provide the prime cost amount of R 11000.00 each for 200 litre geysers	No	1,00	R		R	
		Testing						
GRJ	3.13.120	Testing supply water pipe system HOLES ETC	Item	1,00	R		R	
		Core drilling of hole for pipe not exceeding 50mm diameter						
GRJ	3.13.121	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	3,00	R		R	
		Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter						
GRJ	3.13.122	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	3,00	R		R	
		Materials & Plant						
CDI	2 12 122	Provision for Sundry Materials & Plant	Prov	1,00	R	17 875,00	D	17 875,00
		Allow for profit & attendance if required	%	1,00	R	17 875,00		17 873,00
		Provisional Sum						
GRJ	3.13.125	Sundry Plumbing Works	Sum	1,00	R	17 875,00		17 875,00
GRJ	3.13.126	Allow for profit & attendance if required	%		R	17 875,00	R	
		CARRIED TO SECTION SUMMARY					R	

TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.14				
	PAINTWORK				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces				
	Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	Previously painted wood surfaces				
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
	Paintwork to steel surfaces				
	Steel surfaces to be cleaned of all rust, scale and dirt, removed by scraping or with steel wire brush. All oil and grease shall also be removed to obtain a perfectly clean surface. After removing rust from steel, steel is to be painted with a suitable rust converter and primer. Finish with a quality, extremely durable, washable and pure acrylic emulsion enamel paint. For steel door frames, clean down with galvkleen to manufacturers specification before applying primer for galvanised iron. All door frames to be finished with a Water-Based premium quality satin finish non-drip enamel paint.				
	Paintwork to timber surfaces				
	Exposed timber trusses etc. are to be sanded down to smooth finish working in direction of grain. Apply first coat paint thinned 10 parts paint and one part water for penetration. Apply 1 to 2 further coats unthinned (depending on coverage). All to manufacturer specifications. Colour as per architects spec. Timber door surfaces must be dry, clean and free of contaminants. Sand to a smooth surface, free of loose fibres. Remove all dust prior to the application of the basecoat.				
	PAINT SPECIFICATIONS				
	COLOURS				
	Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091.				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		NOTE: All paint products utilised must be SABS/SANS approved. All paint products utilised must be suitable for use in commercial/industrial applications. Acceptable products include proffesional or trade ranges from paint manufacturers. All products utilised must be suited to the application in which it will be used. Paint utilised must perform in accordance with applicable and relevant SANS codes/standards				
		The client reserves the right to reject paint coatings / paint systems that perform poorly / fail due to inferior quality/ that are not SABS approved.				
		PAINTWORK TO NEW WORK				
		"Plascon professional range" or equal approved				
		One coat "Professional Gypsum & Plaster Primer" with an overcoating time of 16 hours and finish with three coats finishing coat (Professional Superior Low Sheen acrylic emulsion paint)				
GRJ	3.14.1	On internal walls	m2	240,00	R	R
GRJ	3.14.2	On external walls	m2	240,00	R	R
GRJ	3.14.3	On ceilings and beams	m2	190,00	R	R
		One coat "Professional Gypsum & Plaster Primer" with an overcoating time of 16 hours and finish with three coats finishing coat (Professional Superior Matt Paint acrylic emulsion paint)				
GRJ	3.14.4	On partitions	m2	140,00	R	R
GRJ	3.14.5	On ceilings and cornices	m2	140,00	R	R
GRJ	3.14.6	On fascias and barge boards	m2	50,00	R	R
		Apply one coat Professional Alkali resistant plaster primer and three coats Paint (Professional Superior Matt Paint)				
GRJ	3.14.7	On Rhinolite walls	m2	140,00	R	R
		ON METAL				
		Prime bare metal surfaces with "Superior Quality" zinc chromate and apply one undercoat and two coats paint on steel (Professional high gloss enamel paint)				
GRJ	3.14.8	On doors	m2	50,00	R	R
GRJ	3.14.9	On door frames	m2	50,00	R	R
GRJ	3.14.10	On windows	m2	50,00	R	R
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)				
GRJ	3.14.11	On palisade fencing	m2	100,00	R	R
GRJ	3.14.12	On steel barriers	m2	50,00	R	R
CDI	3.14.13	On balustrades	m2	50,00	R	R
GKJ						

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		ON WOOD				
		One coat wood primer, one undercoat & two coats alkyd enamel paint (Professional gloss enamel paint)				
GRJ	3.14.15	On boarded panelling	m2	50,00	R	R
GRJ	3.14.16	On boarded ceilings	m2	50,00	R	R
GRJ	3.14.17	On doors	m2	50,00	R	R
GRJ	3.14.18	On door frames	m2	50,00	R	R
GRJ	3.14.19	On skirtings	m	50,00	R	R
		Prime bare areas with "Wood Primer" and apply two coats "Timber Varnish" (High gloss wood varnish)				
GRJ	3.14.20	On boarded panelling	m2	50,00	R	R
GRJ	3.14.21	On boarded ceilings	m2	50,00	R	R
GRJ	3.14.22	On doors	m2	50,00	R	R
GRJ	3.14.23	On door frames	m2	50,00	R	R
GRJ	3.14.24	On skirtings	m	50,00	R	R
		STEEL ROOFS				
		Prepare surface, prime bare areas with primer and apply two coats roof				
		paint (Plascon Nuroof paint or equal approved)				
GRJ	3.14.25	On metal roof sheets	m2	240,00	R	R
GRJ	3.14.26	To cladding sheets	m2	100,00	R	R
		PREVIOUSLY PAINTED SURFACES				
		"Plascon professional range" or equal approved				
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
GRJ	3.14.27	On internal walls	m2	190,00	R	R
GRJ	3.14.28	On external walls	m2	190,00	R	R
GRJ	3.14.29	On ceilings and beams	m2	140,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Matt Paint)				
GRJ	3.14.30	On partitions	m2	140,00	R	R
GRJ	3.14.31	On ceilings and cornices	m2	140,00	R	R
GRJ	3.14.32	On fascias and barge boards	m2	50,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
	3.14.33	On Rhinolite walls	m2	100,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY		RATE	,	AMOUNT
		METAL SURFACES WITH						
		Prime bare metal surfaces with "Superior Quality" zinc chromate and apply one undercoat and two coats paint on steel (Professional high gloss enamel paint)						
GRJ	3.14.34	Windows and door frames	m2	50,00	R		R	
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)						
GRJ	3.14.35	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat ares)	m2	50,00	R		R	
		PAINT ON WOOD						
		Prepare and apply two full coats plascon alkyd enamel paint						
GRJ	3.14.36	On general surfaces	m2	50,00	R		R	
		Prepare and apply two full coats plascon alkyd enamel paint						
GRJ	3.14.37	On boarded panelling	m2	50,00	R		R	
GRJ	3.14.38	On boarded ceilings	m2	50,00	R		R	
GRJ	3.14.39	On doors	m2	50,00	R		R	
GRJ	3.14.40	On door frames	m2	50,00	R		R	
GRJ	3.14.41	On skirtings	m	50,00	R		R	
		Prepare and apply two coats "Timber Varnish" (High gloss wood varnish)						
GRJ	3.14.42	On boarded panelling	m2	50,00	R		R	
GRJ	3.14.43	On boarded ceilings	m2	50,00	R		R	
GRJ	3.14.44	On doors	m2	50,00	R		R	
GRJ	3.14.45	On door frames	m2	50,00	R		R	
GRJ	3.14.46	On skirtings	m	50,00	R		R	
		STEEL ROOFS						
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)						
GRJ	3.14.47	On metal roof sheets	m2	283,00	R		R	
GRJ	3.14.48	To cladding sheets	m2	50,00	R		R	
		Materials & Plant						
	3.14.49 3.14.50	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	14 900,00 14 900,00		14 900,00
		Provisional Sum						
GRJ	3.14.51	Sundry Paint Works	Sum	1,00	R	14 900,00	R	14 900,00
GRJ	3.14.52	Allow for profit & attendance if required	%		R	14 900,00		

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARRIED TO CECTION SUPPLY				B
		CARRIED TO SECTION SUMMARY				R

BILL	SECTION 3 SUMMARY - BUILDING WORKS	PAGE NO.	AMOUNT
		171021101	
1	Alterations	247	R
2	Earthworks	250	R
3	Concrete, Formwork & Reinforcement	255	R
4	Masonry	258	R
5	Waterproofing	261	R
6	Carpentry & Joinery	263	R
7	Ceilings, Partitions & Access Flooring	266	R
8	Floor Coverings, Wall Linings etc	267	R
9	Ironmongery	270	R
10	Metalwork	272	R
11	Plastering	276	R
12	Tiling	278	R
13	Plumbing & Drainage	287	R
14	Paintwork	292	R
	CARRIED TO SITE S	SUMMARY	R

				CLUSTEF GRJ	32
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 4				
	EXTERNAL WORKS				
	BILL NO.1				
	ROADWORKS				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Testing of material and filling				
	Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series				
	Site preparation				
GRJ 4.1.1	Trim and level terraced area and compact to set levels.	m2	140,00	R	R
	Digging up topsoil				
GRJ 4.1.2	Digging up topsoil to an average depth of 150mm and preserving for use as filling	m3	30,00	R	R
	BULK EXCAVATION, FILLING ETC				
GRJ 4.1.3	Open face excavation in earth over sloping site	m3	20,00	R	R
	Excavation				
GRJ 4.1.4	Excavate in earth not exceeding 1000mm deep	m3	10,00	R	R
	Keeping excavations free of water				
GRJ 4.1.5	Keeping excavations free of water	Item	1,00	R	R
	Extra over all excavations for carting away				
GRJ 4.1.6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	10,00	R	R
	LAYER WORK				
	Earth filling obtained from the excavations and/or prescribed stock piles on site				
GRJ 4.1.7	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	6,00	R	R
	Filling supplied by the contractor under parking areas, roadways, etc				
GRJ 4.1.8	25mm thick clean, dry river sand layer treated with an approved weed killer at a rate of 50 grams per square metre, spread and levelled to receive paving blocks (elsewhere)	m2	50,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ	4.1.9	G8 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	6,00	R	R
GRJ	4.1.10	G7 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	6,00	R	R
GRJ	4.1.11	G7 Gravel-soil material in 150mm layers compacted to 95% Mod AASHTO density	m3	6,00	R	R
GRJ	4.1.12	Extra over for G7 stabilised with Portland cement compacted to 95% Mod AASHTO density	m3	6,00	R	R
GRJ	4.1.13	Subbase course of G6 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	6,00	R	R
GRJ	4.1.14	G5 Natural gravel material compacted in 150mm layers to 93% Mod AASHTO density	m3	6,00	R	R
GRJ	4.1.15	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	6,00	R	R
GRJ	4.1.16	Base course of G4 natural gravel material in 150mm layers compacted to 98% Mod AASHTO density	m3	6,00	R	R
GRJ	4.1.17	G2 base compacted to 100% Mod AASHTO density	m3	6,00	R	R
		Compaction of surfaces				
GRJ	4.1.18	Compaction of ground surfaces under roadworks etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Roadbed)	m2	140,00	R	R
		SOIL POISONING				
		Weedkiller (active ingredients metolachlor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) or similar approved mixed in the proportion of 100 ml weedkiller to 100l water and applied at a rate of 10 l/m2				
GRJ	4.1.19	Under roads, paving etc.	m2	140,00	R	R
		TESTS				
GRJ	4.1.20	Prescribed tests to determine degree of compaction or similar approved properties of ground or filling				
GRJ	4.1.21	"Modified AASHTO Density" test	No	1,00	R	R
GRJ	4.1.22	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	1,00	R	R
GRJ	4.1.23	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	1,00	R	R
GRJ	4.1.24	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	1,00	R	R
GRJ	4.1.25	UCS test in accordance with method A14 of TMH 1	No	1,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	PAVING				
	Provide the prime cost of R 500.00 per square metre for paving bricks delivered to site in accordance with SANS 1058, laid to falls on and including 20mm thick sand layer with joints filled in with sand, compacted				
	with a vibration compactor				
GRJ 4.1.26	Paving to roadwork and parking to falls	m2	90,00	R	R
GRJ 4.1.27	Extra over for curved edges	m	48,00	R	R
	Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing				
	KERBS ETC				
GRJ 4.1.28	Fig.1 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.29	Fig.2 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.30	Fig.3 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.31	Fig.4 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.32	Fig.5 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.33	Fig.6 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.34	Fig.6 Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.35	Fig.7 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.36	Fig.8 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.37	Fig.8b Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.38	Fig.8c Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.39	Fig.12 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.40	Fig.14 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
GRJ 4.1.41	Fig.16 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
	TRAFFIC SIGNS AND ROAD MARKINGS				
	Prepare and apply one coat reflective road marking paint on bituminous road surfacing, precast concrete paving blocks, etc				
GRJ 4.1.42	100mm Wide line	m	10,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE	AM	IOUNT
CDI	4.1.43	150mm Wide line	m	10,00	R		R	
GKJ	4.1.43	150mm wide line	m	10,00	K		ĸ	
GRJ	4.1.44	300mm Wide line	m	10,00	R		R	
GRJ	4.1.45	Standard type directional arrow not exceeding 1m2	No	1,00	R		R	
GRJ	4.1.46	2500 x 2000mm Wide "traffic arrow" road marking paint	No	1,00	R		R	
GRJ	4.1.47	5400 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
GRJ	4.1.48	6000 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
GRJ	4.1.49	Standard directional arrow signs not exceeding 2m2	No	1,00	R		R	
		Materials & Plant						
					_		_	
	4.1.50	Provision for Sundry Materials & Plant	Prov	1,00	R	5 950,00 5 950,00	R	5 950,00
GKJ	4.1.51	Allow for profit & attendance if required	%		R	5 950,00	К	
		Provisional Sum						
GRJ	4.1.52	Sundry Road Works	Sum	1,00	R	5 950,00	R	5 950,00
	4.1.53	Allow for profit & attendance if required	%	1,00	R	5 950,00		3 330,00
		CARRIED TO SECTION SUMMARY	,				R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 4				
	EXTERNAL WORKS				
	BILL NO.2				
	DRAINAGE				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
	Where no manufacturers' instructions exist, pipes shall be laid in accordance with each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers SABS 1200LE: Stormwater drainage				
	Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB : Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	STORM WATER PIPE				
	Heavy duty uPVC storm water pipes				
GRJ 4.2.1	110mm Diameter pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	10,00	R	R
	Extra over for uPVC fittings				
GRJ 4.2.2	110mm Bend	No	3,00	R	R
GRJ 4.2.3	110mm Junction	No	3,00	R	R
GRJ 4.2.4	110mm Access junction	No	3,00	R	R
GRJ 4.2.5	110mm Rodding Eye	No	3,00	R	R
	uPVC pipe Class 34 HD				
GRJ 4.2.6	160mm Pipes laid in and including trenches(trench to be opened and banked at 1;3 grade allowing pipe to be exposed)	m	10,00	R	R
	Extra over for uPVC fittings				
GRJ 4.2.7	160mm Bend	No	4,00	R	R
GRJ 4.2.8	160mm Junction	No	4,00	R	R
	3		.,		-

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
GRJ	4.2.9	160mm Access junction	No	4,00	R	R
GRJ	4.2.10	160mm Rodding Eye	No	3,00	R	R
GRJ	4.2.11	Catch pits and junction boxes	No	3,00	R	R
		MANHOLES ETC				
		Construct 1420mm x 1420mm brick manholes with medium duty cast iron				
		manhole cover and frame including excavations, backfilling, compaction				
		and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
CDI	4242		Nie	1.00	D.	
	4.2.12	Over 0m and up to 1.0m	No	1,00	R	R
GRJ	4.2.13	Over 1.0m and up to 2.0m	No	1,00	R	R
GRJ	4.2.14	Over 2m and up to 3m	No	1,00	R	R
GRJ	4.2.15	Over 3m and up to 4m	No	1,00	R	R
		Construct 1420mm x 1420mm brick manholes with heavy duty cast iron				
		manhole cover and frame including excavations, backfilling, compaction and cartaway surplus material, spacer, adaptor slabs, benching, junctions,				
		channelling and step irons for the following depths:				
GRJ	4.2.16	Over 0m and up to 1.0m	No	1,00	R	R
GRI	4.2.17	Over 1.0m and up to 2.0m	No	1,00	R	R
	4.2.18	Over 2m and up to 3m	No	1,00	R	R
GRJ	4.2.19	Over 3m and up to 4m	No	1,00	R	R
		Testing Drainage System				
GRJ	4.2.20	Testing soil drainage pipe system	Item	1,00	R	R
		Materials & Plant				
GRI	4.2.21	Provision for Sundry Materials & Plant	Prov	1,00	R 2 975,00	R 2 975,00
	4.2.22	Allow for profit & attendance if required	%	1,00	R 2 975,00	
		Provisional Sum				
GRJ	4.2.23	Sundry Drainage Works	Sum	1,00	R 2 975,00	R 2 975,00
	4.2.24	Allow for profit & attendance if required	%	•	R 2 975,00	
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 4				
	EXTERNAL WORKS				
	DILL NO 2				
	BILL NO.3				
	SEWER RETICULATION				
	PREAMBLES				
	The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2008 edition)				
	SUPPLEMENTARY PREAMBLES				
	Laying, backfilling, bedding, etc of pipes				
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
	Where no manufacturers' instructions exist, pipes shall be laid in accordance with each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers SABS 1200LE: Stormwater drainage				
	Pipe trenches, etc shall be backfilled in accordance with SABS 1200DB : Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	Sewer manhole/ inspection chambers				
	Construct 1420mm x 1420mm brick manholes with medium duty cast iron				
	manhole cover and frame including excavations, backfilling, compaction				
	and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
GRJ 4.3.1	Over 0m and up to 1.0m	No	1,00	R	R
CD1 4 2 2	0 - 4 0 4 0 4 0 0	NI -	4.00		
GRJ 4.3.2	Over 1.0m and up to 2.0m	No	1,00	R	R
GRJ 4.3.3	Over 2m and up to 3m	No	1,00	R	R
GRJ 4.3.4	Over 3m and up to 4m	No	1,00	R	R
			,		
	Construct 1420mm x 1420mm brick manholes with heavy duty cast iron manhole cover and frame including excavations, backfilling, compaction				
	and cartaway surplus material, spacer, adaptor slabs, benching, junctions, channelling and step irons for the following depths:				
GRJ 4.3.5	Over 0m and up to 1.0m	No	1,00	R	R
GRJ 4.3.6	Over 1.0m and up to 2.0m	No	1,00	R	R
GRJ 4.3.7	Over 2m and up to 3m	No	1,00	R	R
JNJ 4.5./	Over 2111 and up to 3111	INU	1,00	11	11
GRJ 4.3.8	Over 3m and up to 4m	No	1,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CONNECTION OF MAIN SEWER LINE TO BUILDINGS				
		Heavy duty (Class 34) uPVC sewer and drain pipes				
GRJ	4.3.9	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	6,00	R	R
GRJ	4.3.10	110mm Pipes laid in and including trenches not exceeding 1m deep	m	6,00	R	R
		Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings				
GRJ	4.3.11	110mm Bend	No	1,00	R	R
GRJ	4.3.12	110mm Junction	No	1,00	R	R
GRJ	4.3.13	110mm Access bend	No	1,00	R	R
GRJ	4.3.14	110mm Access junction	No	1,00	R	R
GRJ	4.3.15	110mm Rodding eye	No	1,00	R	R
		Class 34 uPVC pipes				
GRJ	4.3.16	160mm Pipes laid in and including trenches(trench to be opened and banked at 1;3 grade allowing pipe to be exposed)	m	6,00	R	R
		Extra over items for uPVC fittings				
GRJ	4.3.17	160 x 110 mm Diameter Y junction	No	1,00	R	R
GRJ	4.3.18	160 x 160 mm Diameter Y junction	No	1,00	R	R
		Channel bends				
GRJ	4.3.19	160mm Diameter 45 degree bend	No	1,00	R	R
GRJ	4.3.20	160mm Diameter 90 degree bend	No	1,00	R	R
		Sockets				
GRJ	4.3.21	160mm Diameter	No	1,00	R	R
		End caps				
GPI	4.3.22	160mm Diameter	No	1,00	R	R
GNJ	4.3.22	100mm Diameter	INO	1,00	N.	N
		SUNDRIES				
GRJ	4.3.23	Excavation in earth for pipe trenches, chambers, etc	m3	1,00	R	R
GRJ	4.3.24	Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the contractor	m3	1,00	R	R
GRJ	4.3.25	Risk of collapse to sides of trenches	m2	1,00	R	R
GRJ	4.3.26	Extra over backfilling to drain trenches, chambers, etc for Class B bedding cradle of compacted selected granular material	m3	1,00	R	R
GRJ	4.3.27	25Mpa unreinforced concrete encasing to horizontal pipes laid in trenches N.E 1m deep	m3	1,00	R	R
		WATER				

ITEI	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
GRJ	4.3.28	Keeping excavations free of water	Item	1,00	R		R	
		uPVC gulleys						
GRJ	4.3.29	110mm Gulley not exceeding 750mm deep including trap, head, grating etc	No	1,00	R		R	
		Testing						
GRJ	4.3.30	Testing drainage system	Item	1,00	R		R	
		Materials & Plant						
GPI	4.3.31	Provision for Sundry Materials & Plant	Prov	1,00	R	2 975,00	D	2 975,00
GRJ	4.3.32	Allow for profit & attendance if required	%	1,00	R	2 975,00	R	2 373,00
		Provisional Sum						
	4.3.33	Sundry Sewer Reticulation Works	Sum	1,00	R	2 975,00		2 975,00
GRJ	4.3.34	Allow for profit & attendance if required	%		R	2 975,00	R	
					-			
		CARRIED TO SECTION SUMMARY	,				R	

BILL	SECTION 4 SUMMARY - EXTERNAL WORKS	PAGE NO.	AMOUNT
1	Road Works	297	R
2	Drainage	299	R
3	Sewer Reticulation	302	R
	CARRIED TO SITE S	SUMMARY	R
	SAINTED TO OTTE	J (1 \ 1	• •

				CLUSTER		CLUSTER 2	2		
ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT	
		SECTION 5 PROVISIONAL SUMS							
		BILL NO.1							
		PROVISIONAL SUMS FOR SUBCONTRACT WORKS							
		General							
		Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances							
		Provisional sums are for material and equipment supplied and installed complete by firms of specialists							
		General attendance on subcontractors							
		The item "attendance" which follows each provisional sum for subcontractors' work, shall be deemed to cover all the contractor's costs incurred in ensuring all contractual obligations for the works are met.							
		LATERAL SUPPORT, GROUND ANCHORING, PILING & UNDERPINNING, ETC							
GRJ	5.1	Provide the sum of R51,000.00 for Lateral Support, Ground Anchoring, Piling & Underpinning, Etc by an approved sub-contractor	Sum	1,00	R	51 000,00	R	51 000,0	
GRJ	5.2	Allow for profit & attendance if required	%		R	51 000,00	R		
		ROOF COVERINGS, CLADDINGS ETC							
GRJ	5.3	Provide the sum of R310,000.00 for Roof Coverings, Claddings Etc by an approved sub-contractor	Sum	1,00	R	310 000,00	R	310 000,	
GRJ	5.4	Allow for profit & attendance if required	%		R	310 000,00	R		
		STRUCTURAL STEELWORK							
GRJ	5.5	Provide the sum of R310,000.00 for Structural Steelwork by an approved sub-contractor	Sum	1,00	R	310 000,00	R	310 000,	
GRJ	5.6	Allow for profit & attendance if required	%		R	310 000,00	R		
		JOINERY & CABINETRY INSTALLATION							
GRJ	5.7	Provide the sum of R51,000.00 for the joinery & cabinetry installation by an approved sub-contractor	Sum	1,00	R	51 000,00	R	51 000,	
GRJ	5.8	Allow for profit & attendance if required	%		R	51 000,00	R		

ITEN	I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ROLLER SHUTTERS & HANGAR DOORS						
GRJ	5.9	Provide the sum of R103,000.00 for Roller Shutters & Hangar Doors by an approved sub-contractor	Sum	1,00	R	103 000,00	R	103 000,0
GRJ	5.10	Allow for profit & attendance if required	%		R	103 000,00	R	
		GENERAL GLAZING						
GRJ	5.11	Provide the sum of R51,000.00 for General Glazing by an approved sub- contractor	Sum	1,00	R	51 000,00	R	51 000,0
GRJ	5.12	Allow for profit & attendance if required	%		R	51 000,00	R	
		ALUMINIUM FACADE CLADDING, SHOPFRONTS, WINDOWS AND DOORS						
GRJ	5.13	Provide the sum of R103,000.00 for aluminium façade cladding, shopfronts, window and door installation by an approved sub-contractor	Sum	1,00	R	103 000,00	R	103 000,0
GRJ	5.14	Allow for profit & attendance if required	%		R	103 000,00	R	
		SIGNAGE						
GRJ	5.15	Provide the sum of R51,000.00 for corporate and directional signage by an approved subcontractor	Sum	1,00	R	51 000,00	R	51 000,0
GRJ	5.16	Allow for profit & attendance if required	%		R	51 000,00	R	
		BLINDS, FURNITURE & FITTINGS						
GRJ	5.17	Provide the sum of R77,000.00 for blinds, furniture and fittings by an approved subcontractor	Sum	1,00	R	77 000,00	R	77 000,0
GRJ	5.18	Allow for profit & attendance if required	%		R	77 000,00	R	
		TENANT TEMPORARY RELOCATION & REINSTATEMENT						
GRJ	5.19	Provide the sum of R 51,000.00 for tenant temporary relocation and reinstatement works by an approved subcontractor	Sum	1,00	R	51 000,00	R	51 000,0
GRJ	5.20	Allow for profit & attendance if required	%		R	51 000,00	R	
		ASBESTOS REMOVAL					-	
GRJ	5.21	Provide the sum of R51,000.00 for the Removal & Safe Disposal of Asbestos by an approved subcontractor	Sum	1,00	R	51 000,00	R	51 000,0
GRJ	5.22	Allow for profit & attendance if required	%		R	51 000,00	R	
		GUTTERS & RAINWATER DISPOSAL SYSTEMS						
GRJ	5.23	Provide the sum of R103,000.00 for Gutters & Rainwater Disposal Systems by an approved subcontractor	Sum	1,00	R	103 000,00	R	103 000,0
GRJ	5.24	Allow for profit & attendance if required	%		R	103 000,00	R	

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ELECTRICAL, ELECTRONIC AND MECHANICAL INSTALLATIONS						
		GENERAL ELECTRICAL INSTALLATIONS						
GRJ	5.25	Provide the sum of R310,000.0 for General Electical Installations by an approved subcontractor	Prov	1,00	R	310 000,00	R	310 000,00
GRJ	5.26	Allow for profit & attendance if required	%		R	310 000,00	R	
		SUB - STATION INSTALLATIONS						
GRJ	5.27	Provide the sum of R51,000.00 for Sub Station Installations by an approved subcontractor	Sum	1,00	R	51 000,00	R	51 000,00
GRJ	5.28	Allow for profit & attendance if required	%		R	51 000,00	R	
		UPS INSTALLATIONS						
GRJ	5.29	Provide the sum of R51,000.00 for UPS Installations by an approved subcontractor	Sum	1,00	R	51 000,00	R	51 000,00
GRJ	5.30	Allow for profit & attendance if required	%		R	51 000,00	R	
		GENERATOR INSTALLATION						
GRJ	5.31	Provide the sum of R51,000.00 for the Generator Installation by an approved sub-contractor	Sum	1,00	R	51 000,00	R	51 000,00
GRJ	5.32	Allow for profit & attendance if required	%		R	51 000,00	R	
		FIRE DETECTION & FIRE STOPPING INSTALLATION						
GRJ	5.33	Provide the sum of R77,000.00 for the Fire Detection & Fire Stopping Installation by an approved sub-contractor	Sum	1,00	R	77 000,00	R	77 000,00
GRJ	5.34	Allow for profit & attendance if required	%		R	77 000,00	R	
		ACCESS CONTROL						
GRJ	5.35	Provide the sum of R25,000.00 for the Access Control System installation by an approved sub-contractor	Sum	1,00	R	25 000,00	R	25 000,00
GRJ	5.36	Allow for profit & attendance if required	%		R	25 000,00	R	
		CCTV INSTALLATION						
GRJ	5.37	Provide the sum of R25,000.00 for CCTV installation by an approved sub- contractor	Sum	1,00	R	25 000,00	R	25 000,00
GRJ	5.38	Allow for profit & attendance if required	%		R	25 000,00	R	
		INTERNET AND TELECOMMUNICATION INSTALLATION						
GRI	5.39	Provide the sum of R51,000.00 for the internet and	Sum	1,00	R	51 000,00	R	51 000,00
GNJ	J.JJ	telecommunication installation by an approved subcontractor	Julii	1,00		31 000,00		31 000,00
GRJ	5.40	Allow for profit & attendance if required	%		R	51 000,00	R	

ITEN	NO NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		GENERAL MECHANICAL INSTALLATION						
GRJ	5.41	Provide the sum of R310,000.00 for General Mechanical Installations by an approved subcontractor	Prov	1,00	R	310 000,00	R	310 000,00
GRJ	5.42	Allow for profit & attendance if required	%		R	310 000,00	R	
		FIRE PROTECTION INSTALLATIONS						
GRJ	5.43	Provide the sum of R51,000.00 for Fire Protection Installations by an approved subcontractor	Sum	1,00	R	51 000,00	R	51 000,00
GRJ	5.44	Allow for profit & attendance if required	%		R	51 000,00	R	
		SPRINKLER INSTALLATIONS				·		
GRJ	5.45	Provide the sum of R103,000.00 for Sprinkler Installations by an approved subcontractor	Sum	1,00	R	103 000,00	R	103 000,00
GRJ	5.46	Allow for profit & attendance if required	%		R	103 000,00	R	
		GAS SUPPRESSION INSTALLATIONS						
GRJ	5.47	Provide the sum of R103,000.00 for Gas Suppression Installations by an	Sum	1,00	R	103 000,00	R	103 000,00
		approved subcontractor						
GRJ	5.48	Allow for profit & attendance if required	%		R	103 000,00	R	
		SMOKE EXTRACTION INSTALLATIONS						
GRJ	5.49	Provide the sum of R103,000.00 for Smoke Extraction Installations by an approved subcontractor	Sum	1,00	R	103 000,00	R	103 000,00
GRJ	5.50	Allow for profit & attendance if required	%		R	103 000,00	R	
		HVAC INSTALLATION						
GRJ	5.51	Provide the sum of R310,000.00 for the HVAC installation by an approved sub-contractor	Sum	1,00	R	310 000,00	R	310 000,00
GRJ	5.52	Allow for profit & attendance if required	%		R	310 000,00	R	
		LANDSCAPING WORKS						
GRJ	5.53	Provide the sum of R103,000.00 for Landscaping Works by an approved sub-contractor	Sum	1,00	R	103 000,00	R	103 000,00
GRJ	5.54	Allow for profit & attendance if required	%		R	103 000,00	R	
		SPECIALIST WORKS						
GRJ	5.55	Provide the sum of R51,000.00 for Specialist Works by an approved sub-contractor	Prov	1,00	R	51 000,00	R	51 000,00
GRJ	5.56	Allow for profit & attendance if required	%		R	51 000,00	R	
		CARRIED TO SITE SUMMARY					R	

					CLUSTER	2
ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 6				
		WASTE DISPOSAL , REPURPOSING & RECYCLING				
		BILL NO.1				
		DILL NO.1				
		WASTE DISPOSAL , REPURPOSING & RECYCLING				
		GENERAL				
		All waste shall be disposed / recycled / repurposed by permitted disposal / recycling / repurposing facilities and safe disposal /recycling / repurposing certificates shall be provided for all waste removed from site				
		The contractor shall maintain and provide records and manifests of waste removed from the site and corresponding waybills and disposal, repurposing and recycling certificates issued by permitted waste facilities				
		The contractor shall provide copies of permits of disposal / recycling / repurposing facilities for client approval prior to transferring of any waste				
		Hazardous Waste				
		Provision is made for performing the required waste classifications and subsequent disposal of any hazardous waste streams encountered during construction works				
		Recycling / Repurposing Return				
		Provision is made for a monetary return to the client for items that are recycled or repurposed. The return is reflected in these bills of quantities as a negative amount. The negative amount accounts for the monetary return to the client. These bills of quantities have provided a baseline estimate of quantities of materials to be recycled/repurposed and actual quantities will vary based on prevailing site conditions and requirements				
		GENERAL WASTE				
GRJ	6.1	General building / building rubble waste to landfill	ton	30,00	R	R
GNJ	0.1	RECYCLING / REPURPOSING RETURN	ton	30,00	N .	N.
GRJ	6.2	Glass	Kg	100,00	(-R	(-R
GRJ	6.3	Plastics	Kg	100,00	(-R	(-R
GRJ	6.4	Steel	Kg	100,00	(-R	(-R
GRJ	6.5	Stainless Steel	Kg	100,00	(-R	(-R
GRJ	6.6	Copper	Kg	100,00	(-R	(-R
GRJ	6.7	Aluminium	Kg	100,00	(-R	(-R
GRJ	6.8	Brass	Kg	100,00	(-R	(-R
GRJ	6.9	Iron	Kg	100,00	(-R	(-R

GRJ 6.10 GRJ 6.11	HAZARDOUS WASTE Provisional Sum Hazardous Waste Classification & Disposal Costs Allow for profit & attendance if required	Sum %	1,00	R 66 000,00 R 66 000,00	R 66 000,00 R
GRJ 6.10 GRJ 6.11	Provisional Sum Hazardous Waste Classification & Disposal Costs		1,00	R 66 000,000	R 66 000,00 R
GRJ 6.10 GRJ 6.11	Hazardous Waste Classification & Disposal Costs		1,00	R 66 000,00 R 66 000,00	R 66 000,00 R
GRJ 6.10 GRJ 6.11	Hazardous Waste Classification & Disposal Costs Allow for profit & attendance if required		1,00	R 66 000,00	R 66 000,00
GRJ 6.11	Allow for profit & attendance if required	%		R 66 000,00	R
					I
1					
	CARRIED TO SITE SUMMARY				R

	SITE SUMMARY - GRJ	PAGE NO.	AMOUNT
	PRICE SUMMARY		
1	Preliminaries	237	R
2	Labour Schedule	240	R
3	Building Works	293	R
4	External Works	303	R
5	Provisional Sums	307	R
6	Waste Disposal, Repurposing & Recycling	309	R
	CARRIED TO CLUSTE	R SUMMARY	R

	CLUSTER SUMMARY	PAGE NO.	AMOUNT
		.,	
	PRICE SUMMARY		
1	Cape Town International Airport (CTIA)	79	R
2	Kimberly Airport (KIM)	156	R
3	Upington Airport (UPT)	233	R
4	George Airport (GRJ)	310	R
	SUB TOTAL - EXCLUDING VALUE ADDED	TAX (VAT)	R
	VALUE ADDED TAX	(VAT -15%)	R
	TOTAL INCLUDING VALUE	ADDED TAX	R