	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	
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	ļ —
	The contractor rate to allow for containabled, labour, profit and waste in the rate over and above the rice annually	

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CHIEF DAWID STUURMAN INTERNATIONAL AIRPORT - CDSIA

			CLUSTER 3				
			CDSIA				
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
	CECTION 4						
	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						
	SUFFLEINIENTART FREAMIBLES						
	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						
	os.,gasono na m.,gason metorian se promise de capport pay, ment						
	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						
	Copples, Lai 11465 & Hara Hate all of which must be shoot shift compilation						
	FIXED CHARGE ITEMS						
CDS 1.1	General Insurance Requirement (Sureties, guarantees, bonds, workman's	Sum	1,00	R	R		
	compensation etc)						
CDS 1.2	Contract works insurance	Sum	1,00	R	R		

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
00011			1.00				
CDS 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						
CDS 1.5	Offices (Accommodates up to 5 staff x 1 off)	month	48,00	R		R	
CDS 1.6	Storage sheds (12m x 2.4m x 1 off - Includes Delivery & Removal)	month	48,00	R		R	
CDS 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	
CDS 1.8	Electric Power & Lighting	month	48,00	R		R	
CDS 1.9	Water supplies, electric power and communications	month	48,00	R		R	
	Supervision						
	Supervisor/Foreman						
CDS 1.10	Site Supervision for the duration of the contract (x 1 Resource)	month	48,00	R		R	
	Safety Management						
CDS 1.11	Provision of full time Construction Site Safety Officer (x 1 Resource)	month	48,00	R		R	
CDS 1.12	Compliance with the Occupational Health and Safety Act (OHSA) and Regulations (including the Construction Regulations, 2014)	month	48,00	R		R	
CDS 1.13	Site Security	month	48,00	R		R	
CDS 1.14	Signage for the site	month	48,00	R		R	
		month	·	N		n	
CDS 1.15	Other time related obligations	month	48,00	R		R	
	VALUE RELATED ITEMS						
CDS 1.16	Contractual requirements	Sum	1,00	R		R	
CDS 1.17	Provision for Specialised PPE Requirements	Drov	1.00	R	215 767,63	0	215 767 62
CDS 1.17	Allow for profit & attendance if required	Prov %	1,00	R	215 767,63		215 767,63
CDS 1.19	Provision for Location and Protection of Existing Underground Services	Prov	1,00	R	129 460,58	R	129 460,58
CDS 1.20	Allow for profit & attendance if required	%	_,	R	129 460,58	R	
CDS 1.21	Provision for Compliance with Environmental requirements	Prov	1,00	R	129 460,58	R	129 460,58
CDS 1.21	Allow for profit & attendance if required	%	_,00	R	129 460,58		
CDS 1.23	Provision for ACSA Training and Airports Permits (ACSA Issue)	Prov	1,00	R	431 535,27	R	431 535,27
CDS 1.24	Allow for profit & attendance if required	%		R	431 535,27	R	
	Materials & Plant						
CDS 1.25	Provision for Sundry Materials & Plant	Prov	1,00	R	253 295,00	D	253 295,00
CDS 1.25	Allow for profit & attendance if required	%	1,00	R	253 295,00		233 233,00
	Provisional Sum						
CDC 4.27		D	1.00	-	252 205 02	D	252 205 02
CDS 1.27 CDS 1.28	Sundry preliminary requirements Allow for profit & attendance if required	Prov %	1,00	R R	253 295,00 253 295,00		253 295,00

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
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		CARRIED TO SITE SUMMARY				R

				CLUSTER 3 CDSIA				
ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
		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: Pagarded as between 06:00am and 19:00am weekdays						
		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)						
CDS	2.1	Normal Hours	Man Hours	1700,00	R	R		
CDS	2.2	After Hours		430,00	R	R		
CDS	2.2	Sundays & Public Holidays	Hours Man	170,00	R	R		
CD3	2.5	Sulldays & Public Holidays	Hours	170,00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	l n		
			1100110					
		Additional Supervisor / Foreman (Civil Works)						
CDS	2.4	Normal Hours		830,00	R	R		
CDS	2.5	After Hours	Hours Man	430,00	R	R		
CDJ	2.5	Aiter riodis	Hours	430,00	``			
CDS	2.6	Sundays & Public Holidays		170,00	R	R		
			Hours					
		Hand was						
CDS	27	Handyman Normal Hours	Man	1850,00	R	R		
CDJ	2.7	Normarriours	Hours	1030,00	``	TX .		
CDS	2.8	After Hours	Man	430,00	R	R		
			Hours					
CDS	2.9	Sundays & Public Holidays	Man Hours	170,00	R	R		
			riours					
		Brick Layer						
CDS	2.10	Normal Hours		860,00	R	R		
CDc	2.11	After Hours	Hours Man	430,00	R	R		
CD2	2.11	After Hours	Hours	430,00	LV.	n.		
CDS	2.12	Sundays & Public Holidays		170,00	R	R		
			Hours					
		Comontor						
CDs	2.13	Carpenter Normal Hours	Man	1290,00	R	R		
CDS	2.13	Notified Flours	Hours	1230,00				
CDS	2.14	After Hours		430,00	R	R		
			Hours					
CDS	2.15	Sundays & Public Holidays		170,00	R	R		
			Hours		1			

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Tiler				
CDS	2.16	Normal Hours	Man	900,00	R	R
			Hours			
CDS	2.17	After Hours	Man Hours	430,00	R	R
CDS	2.18	Sundays & Public Holidays		170,00	R	R
			Hours			
		Plasterer				R
CDS	2.19	Normal Hours	Man	860,00	R	R
CDS	2.20	After Hours	Hours Man	430,00	R	R
CD3	2.20	Arter riours	Hours	430,00	N.	, and the second
CDS	2.21	Sundays & Public Holidays		170,00	R	R
			Hours			
		Painter				
CDS	2.22	Normal Hours	Man	1730,00	R	R
CDS	2.23	After Hours	Hours Man	430,00	R	R
			Hours			
CDS	2.24	Sundays & Public Holidays		170,00	R	R
			Hours			
		Welder				
CDS	2.25	Normal Hours	Man	1730,00	R	R
CDS	2.26	After Hours	Hours Man	430,00	R	R
			Hours			
CDS	2.27	Sundays & Public Holidays	Man Hours	170,00	R	R
			Tiours			
	2.20	General Assistant		25000.00		
CDS	2.28	Normal Hours	Man Hours	26000,00	R	R
CDS	2.29	After Hours		500,00	R	R
CDC	2.30	Condens O Dublic Helidere	Hours	200.00	D	
CDS	2.30	Sundays & Public Holidays	Man Hours	200,00	R	R
CDS	2.31	Shutterhand / Formwork Specialist Installer Normal Hours	Man	860,00	R	R
CD3	2.51	Normaniouis	Hours	800,00	IX.	IX.
CDS	2.32	After Hours	Man	430,00	R	R
CDs	2.33	Sundays & Public Holidays	Hours Man	170,00	R	R
	2.33	Suridays & Fubile Hollidays	Hours	170,00		I N
CDS	2.34	Waterproofing Technician / Specialist Installer Normal Hours	Man	860,00	R	R
			Hours			
CDS	2.35	After Hours		430,00	R	R
CDS	2.36	Sundays & Public Holidays	Hours Man	170,00	R	R
			Hours	,		
		Ceiling & Partitions Specialist Installer				
CDS	2.37	Normal Hours	Man	860,00	R	R
			Hours			
CDS	2.38	After Hours	Man Hours	430,00	R	R
CDS	2.39	Sundays & Public Holidays		170,00	R	R
		,	Hours			

ITEM I	NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Flooring Specialist Installer (Minut & France Floors)				
CDS 2.	.40	Flooring Specialist Installer (Vinyl & Epoxy Floors) Normal Hours	Man	860,00	R	R
			Hours			
CDS 2.	.41	After Hours		430,00	R	R
CDS 2.	12	Sundays & Public Holidays	Hours Man	170,00	R	R
CD3 2.	.72	Sundays & Fubile Holladys	Hours	170,00	IX.	IX.
CDC 2	42	Flooring Specialist Installer (Carpets)	N.4 a. a.	000.00		
CDS 2.	.43	Normal Hours	Man Hours	860,00	R	R
CDS 2.	.44	After Hours		430,00	R	R
			Hours			
CDS 2.	.45	Sundays & Public Holidays		170,00	R	R
			Hours			
		Flooring Specialist Installer (Timber / Composite Floors)				
CDS 2.	.46	Normal Hours		860,00	R	R
CDS 2.	47	AD U	Hours	420.00	D	l D
CDS 2.	.4/	After Hours	Man Hours	430,00	R	R
CDS 2.	.48	Sundays & Public Holidays		170,00	R	R
			Hours			
CDS 2.	19	Plumber Normal Hours	Man	1800,00	R	R
CD3 Z.	.43	Normal riours	Hours	1800,00	IX.	IX.
CDS 2.	.50	After Hours		430,00	R	R
			Hours			
CDS 2.	.51	Sundays & Public Holidays		160,00	R	R
			Hours			
+						
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		CARRIED TO SITE SUMMARY				R

				CLUSTER 3 CDSIA					
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								
	CENTED AL								
	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 souted assessed								
	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				
CDS	3.1.1	Temporary hoarding of galvanised diamond mesh covered with shade cloth 2.7m high and removal later	m	220,00	R	R
CDS	3.1.2	Extra over for galvanised mild steel double gate and frame1 511 x 2032mm high	No	4,00	R	R
CDS	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	320,00	R	R
CDS	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	4,00	R	R
CDS	3.1.5	Hoarding between concrete floor and ceiling formed of suitable timber framing with 22mm thick shutter board	m2	110,00	R	R
CDS	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
CDS	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.				
CDS	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.				
CDS	3.1.9	Concrete Columns, beams and slabs not exceeding 3m high	m3	60,00	R	R
CDS	3.1.10	Manholes, bases, strip footings etc not exceeding 1.5m deep	m3	60,00	R	R
CDS	3.1.11	Surface beds not exceeding 100mm thick	m3	60,00	R	R
CDS	3.1.12	Surface beds exceeding 100mm thick and not exceeding 150mm thick	m3	60,00	R	R
		Breaking down and removing brickwork including all steel door frames, window frames etc and carting to approved disposal area within the airport.				
CDS	3.1.13	Half brick wall	m2	320,00	R	R
CDS	3.1.14	One brick wall	m2	320,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Taking up and removing vinyl floor coverings, tiles, carpets, etc				
CDS	3.1.15	Ceramic / Porcelain / Marble tiles to floor including preparing floor for new floor covering	m2	1080,00	R	R
CDS	3.1.16	Vinyl / plastic / carpet floor covering including preparing floors for new floor coverings	m2	430,00	R	R
		Hacking up and removing off coverings to walls, columns, partitionwalls etc. including preparing surfaces for new finishes				
CDS	3.1.17	Tiles from walls, columns	m2	220,00	R	R
CDS	3.1.18	Wall paper covering from walls, columns etc.	m2	110,00	R	R
		Taking out / off and removing sundry metalwork				
CDS	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	320,00	R	R
		Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)				
CDS	3.1.20	Timber single door and steel frame not exceeding 2,5m ²	No	60,00	R	R
CDS	3.1.21	Timber double door and steel frame exceeding 2,5m² and not exceeding 5m²	No	40,00	R	R
CDS	3.1.22	Timber double door and steel frame exceeding 5m ² and not exceeding 7.5m ²	No	40,00	R	R
CDS	3.1.23	Glazed aluminium/steel/timber window not exceeding 2,5m ²	No	60,00	R	R
CDS	3.1.24	Glazed aluminium/steel/timber window exceeding 2,5m² and not exceeding 5m²	No	40,00	R	R
CDS	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				
CDS	3.1.26	Suspended ceilings, including suspension grid, hangers, cornices, etc not exceeding 3.0m high	m2	1080,00	R	R
CDS	3.1.27	Drywall partitions not exceeding 3.0m high, including doors, glazed borrowed lights, etc	m	650,00	R	R
CDS	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				
CDS	3.1.29	Skirtings - various widths	m	430,00	R	R
CDS	3.1.30	Timber sills - various widths	m	110,00	R	R
CDS	3.1.31	Timber wall mounted cupboard - Measured by surface area covered on the wall	m2	110,00	R	R
CDS	3.1.32	Timber floor mounted cupboard - Measured by surface area covered on the floor	m2	110,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS 3.1.33	Timber sink cupboard, including sink and disconnecting & terminating waste pipe - Measured by surface area covered on the floor	m2	60,00	R	R
CDS 3.1.34	Timber/stone counters	m2	110,00	R	R
	Taking out/off and removing sundry metalwork				
CDS 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				
CDS 3.1.36	Not exceeding 100mm thick Screed from floors	m2	1080,00	R	R
CDS 3.1.37	Internal plaster from walls and columns not exceeding 3m high	m2	1080,00	R	R
CDS 3.1.38	Internal plaster from ceilings and beams not exceding 3m high	m2	1080,00	R	R
CDS 3.1.39	External plaster from walls, columns and beams not exceeding 3m high	m2	1080,00	R	R
	POWER WASH ON EXISTING WALLS				
CDS 3.1.40	Power wash on existing walls (Internal and external walls) as per Employer Agent instruction	m2	1080,00	R	R
	Taking down and removing				
CDS 3.1.41	Mesh fence with steel posts and droppers	m2	2160,00	R	R
CDS 3.1.42	Steel palisade fence with steel posts and droppers	m2	2160,00	R	R
CDS 3.1.43	Concrete palisade fence with concrete posts and droppers	m2	2160,00	R	R
CDS 3.1.44	Security fence with 45 degree barbed wire overhang with posts and droppers	m2	2160,00	R	R
CDS 3.1.45	Half brick boundary or yard wall	m2	540,00	R	R
CDS 3.1.46	One brick boundary or yard wall	m2	540,00	R	R
CDS 3.1.47	Clearvu Fence not exceeding 2,0m high with steel posts	m	540,00	R	R
	Lift and removing pre-cast concrete including bedding, etc				
CDS 3.1.48	60mm Interlocking paving	m2	1990,00	R	R
CDS 3.1.49	80mm Interlocking paving	m2	1990,00	R	R
CDS 3.1.50	50mm Cement or brick paving	m2	1990,00	R	R
CDS 3.1.51	Fig.1 Kerbing	m	320,00	R	R
CDS 3.1.52	Fig.2 Kerbing	m	320,00	R	R
CDS 3.1.53	Fig.3 Kerbing	m	320,00	R	R
CDS 3.1.54	Fig.4 Kerbing	m	320,00	R	R
CDS 3.1.55	Fig.5 Kerbing	m	320,00	R	R
CDS 3.1.56	Fig.6 Kerbing	m	320,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.1.57	Fig.6 Kerbing - Mountable	m	320,00	R	R
CDS	3.1.58	Fig.7 Kerbing	m	320,00	R	R
CDS	3.1.59	Fig.8 Kerbing	m	320,00	R	R
CDS	3.1.60	Fig.8b Kerbing - Mountable	m	320,00	R	R
CDS	3.1.61	Fig.8c Kerbing - Mountable	m	320,00	R	R
CDS	3.1.62	Fig.12 Kerbing	m	320,00	R	R
CDS	3.1.63	Fig.14 Kerbing	m	320,00	R	R
CDS	3.1.64	Fig.16 Kerbing	m	320,00	R	R
		PREPARATORY WORK TO EXISTING SURFACES				
CDS	3.1.65	Hacking faces of existing concrete columns, beams, etc to receive plaster	m2	110,00	R	R
CDS	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				
CDS	3.1.67	Ends of half brick walls	m	110,00	R	R
CDS	3.1.68	Ends of one brick walls	m	110,00	R	R
CDS	3.1.69	Faces of walls where half brick cross walls removed	m	60,00	R	R
CDS	3.1.70	Faces of walls where one brick cross walls removed	m	60,00	R	R
		Making good gypsum plasterboard ceilings and timber brandering				
CDS	3.1.71	Ceilings in patches	m2	60,00	R	R
CDS	3.1.72	Ceilings where half brick walls removed	m	60,00	R	R
CDS	3.1.73	Ceilings where one brick walls removed	m	60,00	R	R
		Making good cement screeds				
CDS	3.1.74	Not exceeding 100mm Thick on floors in patches	m2	110,00	R	R
CDS	3.1.75	Floors where half brick walls removed	m	60,00	R	R
CDS	3.1.76	Floors where one brick walls removed	m	60,00	R	R
		Making good internal cement plaster				
CDS	3.1.77	Walls in patches	m2	60,00	R	R
CDS	3.1.78	Concrete ceilings in patches	m2	60,00	R	R
CDS	3.1.79	Walls where half brick walls removed	m	60,00	R	R

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CDS	3.1.80	Walls where one brick walls removed	m	60,00	R		R	
CDS	3.1.81	Concrete ceilings where half brick walls removed	m	60,00	R		R	
CDS	3.1.82	Concrete ceilings where one brick walls removed	m	60,00	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.						
CDS	3.1.83	Opening through half brick wall	m2	120,00	R		R	
CDS	3.1.84	Opening through one brick wall	m2	118,00	R		R	
		Materials & Plant						
CDS	3.1.85	Provision for Sundry Materials & Plant	Prov	1,00	R	135 550,00	D	135 550,00
	3.1.86	Allow for profit & attendance if required	%	1,00	R	135 550,00		133 330,00
		Provisional Sum						
	3.1.87 3.1.88	Provision for sundry Alterations Works Allow for profit & attendance if required	Sum %	1,00	R	135 550,00 135 550,00		135 550,00
		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				
	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				
CDS 3.2.1	Stripping average 300mm thick layer of top soil and stockpile on site	m2	1730,00	R	R
	EXCAVATION, RISK OF COLLAPSE, FILLING, ETC				
	Excavation in earth not exceeding 2m deep including carting to a stockpile				
CDS 3.2.2	To trenches	m3	500,00	R	R
CDS 3.2.3	To holes	m3	50,00	R	R
CDS 3.2.4	Reduced levels under floors	m3	80,00	R	R
CD3 5.2.4	Excavation in earth exceeding 2m deep but ne. 4m including carting to a stockpile	1113	80,00	T.	N .
CDS 3.2.5	To trenches	m3	220,00	R	R
CDS 3.2.6	To holes	m3	40,00	R	R
CDS 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				
CDS 3.2.8	EO: Soft rock	m3	40,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.2.9	EO: Hard rock	m3	40,00	R	R
		Extra over all excavations for carting away				
CDS	3.2.10	Surplus material from excavations and/or stock piles on site to a dumping	m3	430,00	R	R
		site to be located by the contractor				
		Risk of collapse to sides of excavation n.e 2m deep				
CDS	3.2.11	To trenches	m2	390,00	R	R
CDS	3.2.12	To holes	m2	90,00	R	R
		Risk of collapse to sides of excavation exceeding 2m but n.e 3.5m deep				
CDS	3.2.13	To trenches	m2	395,00	R	R
CDS	3.2.14	To holes	m2	130,00	R	R
		Keeping excavations free of water				
CDS	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				
CDS	3.2.16	Under foundations, floors, steps, pavings, etc	m3	170,00	R	R
		Earth filling supplied (G5) by contractor compacted to 93% Mod AASHTO density				
CDS	3.2.17	Under floors, steps, paving, foundations, manholes etc	m3	300,00	R	R
		Compaction of surfaces				
CDS	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	860,00	R	R
		Prescribed density tests on filling				
CDS	3.2.19	"Modified AASHTO Density" test	No	1,00	R	R
CDS	3.2.20	"Field Density" test, including "Optimum Moisture Content" (four readings per test)	No	1,00	R	R
		SOIL POISONING				
		Soil insecticide				
CDS	3.2.21	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	430,00	R	R
CDS	3.2.22	To bottoms and sides of trenches etc	m2	430,00	R	R
		Materials & Plant				
	3.2.23	Provision for Sundry Materials & Plant	Prov	1,00	R 27 100,00	
CDS	3.2.24	Allow for profit & attendance if required	%		R 27 100,00	R

IILIN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE	AMOUNT
		Provisional Sum					
CDS	3.2.25 3.2.26	Sundry Earthworks Allow for profit & attendance if required	Sum	1,00	R	27 100,00 27 100,00	R 27 100
CDS	3.2.26	Allow for profit & attendance if required	%		R	27 100,00	R
		CARRIED TO SECTION SUMMARY	,				R

			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)				
	SUPPLEMENTARY PREAMBLES				
	SOFFLEIVIEIVIANT FREAIVIBLES				
	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				
CDS 3.3.1	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	80,00	R	R

20 Mpa/Zomm vibrated reinforced concrete	ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS 3.3.1 To strip footings, surface beds, blinding, pawing, platforms, steps, bases, kerbing etc R R R R R CDS 3.3.4 To slabs m3 40,000 R R R R R R R R R			20 Mms /20mm vibrated reinforced concrete				
Serbing etc			20 Mpa/2011111 Vibrated reinforced concrete				
CDS 3.3.5 To beams m3 40,00 R R R	CDS	3.3.2		m3	80,00	R	R
CDS 3.3.5 To beams	CDS	3.3.3	To columns	m3	40,00	R	R
CDS 3.3.6 Walls	CDS	3.3.4	To slabs	m3	40,00	R	R
25 Mpa/20mm vibrated reinforced concrete	CDS	3.3.5	To beams	m3	40,00	R	R
CDS 3.3.7 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc CDS 3.3.8 To columns m3 40,00 R R R R CDS 3.3.9 To slabs m3 40,00 R R R CDS 3.3.11 Walls m3 40,00 R R R CDS 3.3.12 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc CDS 3.3.12 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.15 To beams m3 40,00 R R R CDS 3.3.16 Walls m3 40,00 R R R CDS 3.3.17 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.16 Walls m3 40,00 R R R CDS 3.3.17 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.17 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.18 To columns m3 40,00 R R R CDS 3.3.19 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.19 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.20 To beams m3 10,00 R R R CDS 3.3.21 Walls m3 10,00 R R R CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.23 To columns m3 10,00 R R R CDS 3.3.23 To columns m3 10,00 R R R CDS 3.3.24 To strip footings, surface beds, blinding, paving, platforms, steps, bases, last CDS 3.3.23 To columns T	CDS	3.3.6	Walls	m3	40,00	R	R
Rerbing etc			25 Mpa/20mm vibrated reinforced concrete				
COS 3.3.9 To slabs m3 40,00 R R R	CDS	3.3.7		m3	80,00	R	R
CDS 3.3.10 To beams m3 40,00 R R R	CDS	3.3.8	To columns	m3	40,00	R	R
CDS 3.3.11 Walls	CDS	3.3.9	To slabs	m3	40,00	R	R
CDS 3.3.12 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc May M	CDS	3.3.10	To beams	m3	40,00	R	R
CDS 3.3.12 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc May 1	CDS	3.3.11	Walls	m3	40.00	R	R
CDS 3.3.13 To columns m3 40,00 R R CDS 3.3.14 To slabs m3 40,00 R R CDS 3.3.15 To beams m3 40,00 R R CDS 3.3.16 Walls m3 40,00 R R CDS 3.3.17 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc m3 20,00 R R CDS 3.3.18 To columns m3 10,00 R R CDS 3.3.19 To slabs m3 10,00 R R CDS 3.3.20 To beams m3 10,00 R R CDS 3.3.21 Walls m3 10,00 R R CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc m3 20,00 R R CDS 3.3.23 To columns m3 10,00 R R CDS 3.3.24 To slabs m3 10,00 R R							
CDS 3.3.14 To slabs	CDS	3.3.12		m3	80,00	R	R
CDS 3.3.15 To beams	CDS	3.3.13	To columns	m3	40,00	R	R
CDS 3.3.16 Walls	CDS	3.3.14	To slabs	m3	40,00	R	R
35 Mpa/20mm vibrated reinforced concrete	CDS	3.3.15	To beams	m3	40,00	R	R
CDS 3.3.17 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc m3 20,00 R R CDS 3.3.18 To columns m3 10,00 R R CDS 3.3.19 To slabs m3 10,00 R R CDS 3.3.20 To beams m3 10,00 R R CDS 3.3.21 Walls m3 10,00 R R CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc m3 20,00 R R CDS 3.3.23 To columns m3 10,00 R R CDS 3.3.24 To slabs m3 10,00 R R	CDS	3.3.16	Walls	m3	40,00	R	R
CDS 3.3.17 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc m3 20,00 R R CDS 3.3.18 To columns m3 10,00 R R CDS 3.3.19 To slabs m3 10,00 R R CDS 3.3.20 To beams m3 10,00 R R CDS 3.3.21 Walls m3 10,00 R R CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc m3 20,00 R R CDS 3.3.23 To columns m3 10,00 R R CDS 3.3.24 To slabs m3 10,00 R R			25 Mna/20mm vibrated reinforced concrete				
Rerbing etc			• ·				
CDS 3.3.19 To slabs m3 10,00 R R CDS 3.3.20 To beams m3 10,00 R R CDS 3.3.21 Walls m3 10,00 R R A0 Mpa/20mm vibrated reinforced concrete CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc m3 20,00 R R CDS 3.3.23 To columns m3 10,00 R R CDS 3.3.24 To slabs m3 10,00 R R	CDS	3.3.17		m3	20,00	R	R
CDS 3.3.20 To beams m3 10,00 R R CDS 3.3.21 Walls m3 10,00 R R 40 Mpa/20mm vibrated reinforced concrete CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc m3 20,00 R R CDS 3.3.23 To columns m3 10,00 R R CDS 3.3.24 To slabs m3 10,00 R R	CDS	3.3.18	To columns	m3	10,00	R	R
CDS 3.3.21 Walls m3 10,00 R R 40 Mpa/20mm vibrated reinforced concrete CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc CDS 3.3.23 To columns m3 10,00 R R CDS 3.3.24 To slabs m3 10,00 R R	CDS	3.3.19	To slabs	m3	10,00	R	R
CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc CDS 3.3.23 To columns CDS 3.3.24 To slabs M3 10,00 R R R R R	CDS	3.3.20	To beams	m3	10,00	R	R
CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc CDS 3.3.23 To columns CDS 3.3.24 To slabs CDS 3.3.24 To slabs CDS 3.3.24 To slabs	CDS	3.3.21	Walls	m3	10,00	R	R
CDS 3.3.22 To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc CDS 3.3.23 To columns m3 10,00 R R CDS 3.3.24 To slabs m3 10,00 R R			40 Mpa/20mm vibrated reinforced concrete				
kerbing etc		2.2.5					
CDS 3.3.24 To slabs m3 10,00 R R	CDS	3.3.22		m3	20,00	K	К
	CDS	3.3.23	To columns	m3	10,00	R	R
CDS 3.3.25 To beams m3 10,00 R R	CDS	3.3.24	To slabs	m3	10,00	R	R
110 10,00 11	CDS	3.3.25	To beams	m3	10.00	R	R
CDS 3.3.26 Walls m3 10,00 R R							

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		TEST CUBES				
CDS	3.3.27	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				
						_
CDS	3.3.28	Surface beds, slabs,beams, walls, paving etc Finishing top surfaces of concrete smooth with a steel trowel	m2	430,00	R	R
CDS	3.3.29	Surface beds, slabs, beams, walls, paving etc	m2	430,00	R	R
		Finishing top surfaces of concrete smooth with a power float				
CDS	3.3.30	Surface beds, slabs,beams, walls, paving etc	m2	430,00	R	R
		Scabble existing concrete surfaces, wire brush corroded rebar and apply "Prostruct 616" or similar approved wet to dry concrete adhesive				
CDS	3.3.31	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		-7		
CDS	3.3.32	To falls	m2	220,00	R	R
CD3	3.3.32	TOTALIS	1112	220,00	N.	K
CDS	3.3.33	35MPa non-shrink grout Bedding approximately 30mm thick under 300 x 300mm base plate, including chamfered edges all round	m3	3,00	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				
CDS	3.3.34	40mm Diameter opening	No	10,00	R	R
CDS	3.3.35	50mm Diameter opening	No	10,00	R	R
				,		
CDS	3.3.36	110mm Diameter opening	No	10,00	R	R
CDS	3.3.37	200mm Diameter opening	No	10,00	R	R
CDS	3.3.38	250mm Diameter opening	No	10,00	R	R
CDS	3.3.39	350mm Diameter opening	No	5,00	R	R
	3.3.40		Nic	3,00		D
CDS	3.3.40	450mm Diameter opening	No	3,00	R	R
		Rough formwork to sides				
CDS	3.3.41	Edges , risers, ends and reveals not exceeding 300 mm high	m	430,00	R	R
CDS	3.3.42	To ground beams	m2	220,00	R	R
		Smooth formwork to sides including supports etc.				
		Smooth formwork to sides including supports etc.				
CDS	3.3.43	To beams	m2	200,00	R	R

	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.3.44	To columns	m2	200,00	R	R
CDS	3.3.45	To pits	m2	200,00	R	R
	3.3.46	To ramps	m2	200,00	R	R
	3.3.47	To walls		200,00	R	R
CDS	3.3.47		m2	200,00	N.	N.
		Smooth formwork to soffits				
CDS	3.3.48	Beams propped up exceeding 3,5m and not exceeding 5m high	m2	220,00	R	R
CDS	3.3.49	Slab propped up exceeding 3,5m and not exceeding 5m high	m2	445,00	R	R
		Formwork to sloping top surfaces (pitch exceeding 35 degrees)				
CDS	3.3.50	Concrete humps/bunding, etc not exceeding 300mm wide	m	89,00	R	R
		ISOLATION JOINTS ETC				
		Joint sealants				
		Expansion joints with softboard between vertical concrete surfaces				
CDS	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
CDS	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				
CDS	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				
CDS	3.3.54	25mm Diameter bars	ton	1,00	R	R
CDS	3.3.55	20mm Diameter bars	ton	2,00	R	R
CDS	3.3.56	16mm Diameter bars	ton	2,00	R	R
CDS	3.3.57	12mm Diameter bars	ton	2,00	R	R
CDS	3.3.58	10mm Diameter bars	ton	2,00	R	R
CDS	3.3.59	8mm Diameter bars	ton	2,00	R	R
		High tensile steel reinforcement to structural concrete work		·		
CDS	3.3.60	25mm Diameter bars	ton	1,00	R	R
CDS	3.3.61	20mm Diameter bars	ton	1,00	R	R
CDS	3.3.62	16mm Diameter bars	ton	2,00	R	R
CDS	3.3.63	12mm Diameter bars	ton	2,00	R	R
Į.		10mm Diameter bars	ton	2,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CDS	3.3.65	8mm Diameter bars	ton	2,00	R		R	
				, , , ,				
		Fabric reinforcement						
CDS	3.3.66	Type 100 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	120,00	R		R	
CDS	3.3.67	Type 193 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	120,00	R		R	
CDS	3.3.68	Type 245fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	120,00	R		R	
CDS	3.3.69	Type 311 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	120,00	R		R	
CDS	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						
	3.3.71 3.3.72	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	108 425,00 108 425,00		108 425,00
CD3	3.3.72	Allow for profit & attenuance in required	70		IX.	100 423,00	IX.	
		Provisional Sum						
	3.3.73 3.3.74	Sundry Concrete Formwork & Reinforcement Works Allow for profit & attendance if required	Sum %	1,00	R R	108 425,00 108 425,00		108 425,00
		CARRIED TO SECTION SUMMARY					R	

ITEM 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				
CDC 2.4.1		2	10.00	D.	D
CDS 3.4.1	Piers	m3	10,00	R	R
CDS 3.4.2	Half brick walls	m2	400,00	R	R
CDS 3.4.3	One brick walls	m2	450,00	R	R
CDS 3.4.4	Cavity walls - Made up of Two half brick skins	m2	220,00	R	R
CDS 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
CDS 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	170,00	R	R
CDS 3.4.7	Cutting toothings and bonding new brickwork to existing	m	90,00	R	R
			, -		
	Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.4.8	Piers	m3	10,00	R	R
CDS	3.4.9	Half brick walls	m2	1000,00	R	R
CDS	3.4.10	One brick walls	m2	1270,00	R	R
CDS	3.4.11	Cavity walls - Made up of two half brick skins	m2	600,00	R	R
CDS	3.4.12	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	600,00	R	R
CDS	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	600,00	R	R
CDS	3.4.14	Cutting toothings and bonding new brickwork to existing	m	430,00	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				
CDS	3.4.15	Extra over brickwork for face brickwork in foundation walls, ramp, etc	m2	170,00	R	R
CDS	3.4.16	Extra over brickwork for face brickwork	m2	300,00	R	R
CDS	3.4.17	Half brick face brick walls in class II mortar pointed on both sides	m2	260,00	R	R
CDS	3.4.18	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	40,00	R	R
CDS	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				
CDS	3.4.20	8mm Diameter mild steel bars built in horizontally	ton	1,00	R	R
		Prestressed precast lintels				
CDS	3.4.21	110 x 75mm Lintels in lengths not exceeding 3m	m	220,00	R	R
CDS	3.4.22	110 x 75mm Lintels exceeding 3,0m but not exceeding 4,5m	m	130,00	R	R
		Fabric Reinforcement				
CDS	3.4.23	75mm Galvanised brickforce suitable for half brick walls	m	1290,00	R	R
CDS	3.4.24	150mm Galvanised brickforce suitable for one brick walls	m	1290,00	R	R
		Galvanised hoop iron cramps, ties, etc				
CDS	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				
CDS	3.4.26	On brick walls	m2	260,00	R	R
	_					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Materials & Plant				
CDS 3.4.2	Provision for Sundry Materials & Plant	Prov	1,00	R 108 425,00	R 108 425,00
CDS 3.4.2	Allow for profit & attendance if required	%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	R 108 425,00	R
	Provisional Sum				
CDS 3.4.2	Sundry Masonry Works	Sum	1,00	R 108 425,00	R 108 425,00
CDS 3.4.3	Allow for profit & attendance if required	%		R 108 425,00	R
	CARRIED TO SECTION SUMM	ARY			R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.5				
	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				
CDS 3.5.1	In walls	m2	430,00	R	R
	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
CDS 3.5.2	Under surface beds, etc	m2	1290,00	R	R
	Three coats paint sealer "plascon wallseal" or equal approved without membrane				
CDS 3.5.3	On parapet walls	m2	430,00	R	R
	Two coats "Brixeal" or equal approved bitumen emulsion waterproof coating				
CDS 3.5.4	On walls	m2	430,00	R	R
	JOINT SEALANTS ETC		,		
	JOINT SEALANTS ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
CDS 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				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.5.7	On turn-ups and turn-downs exceeding 300mm girth	m2	40,00	R	R
CDS	3.5.8	On sloping roofs	m2	860,00	R	R
CDS	3.5.9	On tops and sides of inverted beams	m2	170,00	R	R
CDS	3.5.10	On bottoms and sides of floor ducts, channels, etc	m2	170,00	R	R
CDS	3.5.11	On bottoms and sides of box gutters	m2	170,00	R	R
CDS	3.5.12	On bottoms and sides of plant boxes	m2	90,00	R	R
CDS	3.5.13	Sealing edges to brickwork or concrete	m	90,00	R	R
CDS	3.5.14	Sealing edges to brickwork or concrete including trowelled mastic bead	m	90,00	R	R
CDS	3.5.15	Additional membrane 300mm girth at internal and external angles	m	90,00	R	R
CDS	3.5.16	Dressing and sealing around pipe not exceeding 200mm external diameter, including additional membrane, gussets, collars, etc	No	40,00	R	R
CDS	3.5.17	On internal surfaces of 300 x 300 x 300mm deep sump, catchpit, etc	No	20,00	R	R
CDS	3.5.18	On concrete flat roofs including all turn-ups and turndowns and sealing edges where required.	m2	430,00	R	R
		PROTECTIVE STONE DRESSING				
		19mm Crushed stone dressing evenly spread with larger stones around outlets				
CDS	3.5.19	25mm Thick on waterproofing to flat roofs	m2	430,00	R	R
		PROTECTIVE ROOFING PAINT				
		Two coats "Silvakote" or similar approved bituminous aluminium paint				
CDS	3.5.20	On waterproofing to roofs	m2	430,00	R	R
CDS	3.5.21	On inside of existing box gutters	m2	430,00	R	R
		PROTECTIVE ROOFING SHEETING		,		
		Type 40 bituminous fibreglass felt laid loose				
CDS	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				
CDS	3.5.23	6 x 10mm In saw cut joints in floors	m	90,00	R	R
CDS	3.5.24	6 x 10mm In expansion joints in tiled walls etc	m	90,00	R	R
CDS	3.5.25	10 x 15mm In expansion joints in tiled floors etc	m	90,00	R	R
	3.5.26	10 x 15mm In expansion joints in floors including raking out expansion	m	90,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CDS	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						
CDS	3.5.28	6 x 10mm In saw cut joints in floors	m	90,00	R		R	
CDS	3.5.29	6 x 10mm In expansion joints in tiled walls etc	m	90,00	R		R	
CDS	3.5.30	10 x 15mm In expansion joints in tiled floors etc	m	90,00	R		R	
CDS	3.5.31	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	90,00	R		R	
CDS	3.5.32	10×15 mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	90,00	R		R	
		Materials & Plant						
	3.5.33	Provision for Sundry Materials & Plant	Prov	1,00	R	54 200,00		54 200,00
CDS	3.5.34	Allow for profit & attendance if required	%		R	54 200,00		
		Provisional Sum						
	3.5.35	Sundry Waterproofing Works	Sum	1,00	R	54 200,00		54 200,00
CDS	3.5.36	Allow for profit & attendance if required	%		R	54 200,00	R	
		CARRIED TO SECTION SUMMARY					R	

ITEN	NO N	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		DILL NO.C				
		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				
		SOFFELIVERY FREARIBLES				
		<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				
CDS	3.6.1	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	100,00	R	R
CDS	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	100,00	R	R
		40mm Thick semi-solid flush panel doors with sapele hardwood veneer both sides suitable for varnish				
CDS	3.6.3	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	90,00	R	R
CDS	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	91,00	R	R
		44mm Thick solid door suitable for varnish or painting and hung to steel, aluminium or timber frames				
CDS	3.6.5	Provide the prime cost of R 3000.00 per door leaf & hinges for single door openings	No	120,00	R	R

ITEN	и NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	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				
CDS	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
CDS	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				
CDS	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	40,00	R	R
CDS	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				
CDS	3.6.11	Provision for Sundry Materials & Plant	Prov	1,00	R 108 425,00	R 108 425,00
CDS	3.6.12	Allow for profit & attendance if required Provisional Sum	%		R 108 425,00	R
CDS	3.6.13	Sundry Carpentry & Joinery Works	Sum	1,00	R 108 425,00	R 108 425,00
	3.6.14	Allow for profit & attendance if required	%	,	R 108 425,00	
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	2011 NO 7				
	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				
	JOHN LEWICKTART I REALIBLES				
	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				
CDS 3.7.1	Ceilings installed using propriety framing system all according to manufacturers specifications	m2	488,00	R	R
CDS 3.7.2	Vertical ceilings installed using propriety framing system all according to manufacturers specifications	m2	430,00	R	R
CDS 3.7.3	Horizontal bulkheads installed using propriety framing system all according to manufacturers specifications	m2	430,00	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				
CDS	3.7.4	Ceilings suspended below soffits	m2	520,00	R	R
CDS	3.7.5	Horizontal bulkheads suspended below concrete soffits	m2	430,00	R	R
CDS	3.7.6	Sloping bulkheads suspended below concrete soffits	m2	430,00	R	R
CDS	3.7.7	Extra over ceiling for opening for sprinkler head	No	90,00	R	R
CDS	3.7.8	Extra over ceiling for opening for down lighter	No	90,00	R	R
CDS	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				
CDS	3.7.10	Ceilings suspended below soffits	m2	520,00	R	R
CDS	3.7.11	Horizontal bulkheads suspended below concrete soffits	m2	430,00	R	R
CDS	3.7.12	Sloping bulkheads suspended below concrete soffits	m2	430,00	R	R
CDS	3.7.13	Extra over ceiling for opening for sprinkler head	No	90,00	R	R
CDS	3.7.14	Extra over ceiling for opening for down lighter	No	90,00	R	R
CDS	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				
CDS	3.7.16	Pre-painted / coated cornices plugged	m	260,00	R	R
		Shadowline to suspended ceilings				
		Provide the prime cost of R 80.00 per meter for shadowline trim				
CDS	3.7.17	Pre-painted / coated shadowline trim fixed	m	260,00	R	R
		Insulation				
CDS	3.7.18	Isotherm 100mm thick polyester thermal ceiling insulation laid on ceilings (measured nett)	m2	860,00	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				
CDS	3.7.19	Partitioning up to 2 600mm high with bottom and top tracks plugged	m2	600,00	R	R
	3.7.20					
		Partitioning up to 2 900mm high with bottom and top tracks plugged	m2	520,00	R	R
CDS	3.7.21	Partitioning up to 3 500mm high with bottom and top tracks plugged	m2	430,00	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						
CDS	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						
CDS	3.7.23	Extra over partitioning for Double Door hung to pressed steel door frame including additional studding, trimming, etc.	No	30,00	R		R	
		Materials & Plant						
CDS	3.7.24	Provision for Sundry Materials & Plant	Prov	1,00	R	108 425,00	R	108 425,00
	3.7.25	Allow for profit & attendance if required	%	,	R	108 425,00	R	,
		Provisional Sum						
CDC	2.7.26	South Collins Designed Assess Florida Mode	6	1.00	_	100 425 00		100 425 04
	3.7.26 3.7.27	Sundry Ceilings, Partitions & Access Flooring Works Allow for profit & attendance if required	Sum %	1,00	R R	108 425,00 108 425,00		108 425,00
		CARRIED TO SECTION SUMMARY					R	

ITEM	I NO	DESCRIPTION	UNIT	QUANTITY	RAT	E	,	AMOUNT
		SECTION 3						
		BUILDING WORKS						
		BILL NO.8						
		FLOOR COVERINGS, WALL LININGS, ETC						
		PREAMBLES						
		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						
		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						
CDS	3.8.1	On floors	m2	820,00	R		R	
CDS	3.8.2	On treads and risers of stairs	m2	260,00	R		R	
		High traffic epoxy floor paint 2.5 to 3mm thick as per specialists specifications						
CDS	3.8.3	On floors	m2	858,00	R		R	
653	0.0.0		2	030,00				
		<u>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</u>						
CDS	3.8.4	On floors	m2	820,00	R		R	
CDS	3.8.5	On treads and risers of stairs	m2	260,00	R		R	
		Materials & Plant						
CDS		Provision for Sundry Materials & Plant	Prov	1,00		200,00		54 200,00
CDS	3.8.7	Allow for profit & attendance if required	%		R 54	200,00	R	
		Provisional Sum						
CDS	3.8.8	Sundry Floor Coverings Wall Linings etc Works	Sum	1,00	R 54	200,00	R	54 200,00
CDS		Allow for profit & attendance if required	%	,		200,00		
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.9				
	IRONMONGERY				
	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				
	General				
	Corrosion proof ironmongery shall be provided as far as possible and shall				
	be fitted by professional carpenter				
	be fitted by professional carpenter				
	Proprietary items				
	, ,				
	Where applicable the manufacturers' names or product catalogue titles				
	are given in sub-heading 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.				
	onered.				
	On request returnable samples are to be provided to the employer's				
	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				
CDC 2.0.1	On single deers	Ne	350.00	D	D
CDS 3.9.1	On single doors	No	350,00	R	R
CDS 3.9.2	On double doors	No	170,00	R	R
		.10	170,00		· ·

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HINGES, BOLTS, ETC				
		Hinges				
CDS	3.9.3	Provide the prime cost amount of R350.00 for 100 x 75mm butt hinges (per pair) installed complete	No	650,00	R	R
		PUSH PLATES AND KICKING PLATES				
		Push plates, kick plates etc				
CDS	3.9.4	Provide the prime cost amount of R750.00 each for Push Plates & Kick Plates installed complete	No	169,00	R	R
		DOOR CLOSERS				
		Door Closers				
CDS	3.9.5	Provide the prime cost amount of R3000.00 each for door closers installed complete	No	349,00	R	R
		Panic Bolts etc				
CDS	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
CDS	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				
CDS	3.9.8	Provide the prime cost amount of R1000.00 each for door handles installed complete	No	300,00	R	R
		CATCHES, CABIN HOOKS, ETC				
		Cabin Hooks etc				
CDS	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				
CDS	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				
CDS	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				
CDS	3.9.12	Provide the prime cost amount of R1000.00 each for stainless steel grab rails plugged to brickwork.	No	30,00	R	R
		<u>SUNDRIES</u>				
		"Solid"				

ITEM	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CDS	3.9.13	Door stop (CZ8731CH) fixed with counter sunk-sunk bolt into anchor bolt	No	130,00	R		R	
		Materials & Plant						
CDS	3.9.14	Provision for Sundry Materials & Plant	Prov	1,00	R	81 325,00	R	81 325,00
CDS	3.9.15	Allow for profit & attendance if required	%	,	R	81 325,00	R	,
		Provisional Sum						
		Provisional Sum						
	3.9.16	Sundry Floor Ironmongery Works	Sum	1,00	R	81 325,00	R	81 325,00
CDS	3.9.17	Allow for profit & attendance if required	%		R	81 325,00	R	
		CARRIED TO SECTION SUMMARY					R	
		CARRIED TO SECTION SUMMARY					ĸ	

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 ELIVERYANT I REALINGEES				
	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				
	DOOR FRAMES, DOORS, ETC				
	Galvinised pressed steel door frames				
	davinised pressed steer 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				
CDS 3.10.1	Frame for door 813 x 2032mm high with three 100mm steel hinges per leaf	No	430,00	R	R
CDS 3.10.2	Frame for door 1613 x 2032mm high with three 100mm steel hinges per leaf	No	260,00	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				
CDS 3.10.3		Nic	420.00	D	D
CDS 3.10.3	Frame for door 813 x 2032mm high with three 100mm steel hinges per leaf	No	430,00	R	R
CDS 3.10.4	Frame for door 1613 x 2032mm high with three 100mm steel hinges per leaf	No	260,00	R	R
	Materials & Plant				
CDS 3.10.5 CDS 3.10.6	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 658 289,00 R 658 289,00	
	Provisional Sum				
			_		
CDS 3.10.7	Sundry Metalworks Mark up provision on sundry Metalorks	Sum %	1,00	R 658 289,00	
CDS 3.10.8	Mark up provision on sundry Metalorks	%		R 658 289,00	n .

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				
	PLASTERING				
	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 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				
	Constitution to House in a constitution of a board 44440. The				
	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				
	Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels				

ITEM	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				
CDS 3	3.11.1	25mm Thick on floors and landings	m2	1290,00	R	R
CDS 3	3.11.2	30mm Thick on floors and landings	m2	430,00	R	R
CDS 3	3.11.3	30mm Thick on floors on waterproofing membrane	m2	350,00	R	R
CDS 3	3.11.4	Average 30mm thick on floors with upper surface to falls	m2	130,00	R	R
CDS 3	3.11.5	Average 30mm thick on floors with upper surface to falls and currents	m2	130,00	R	R
CDS 3	3.11.6	Average 40mm thick on roofs with upper surface to falls	m2	130,00	R	R
CDS 3	3.11.7	Average 40mm thick on roofs with upper surface to falls and currents	m2	130,00	R	R
CDS 3	3.11.8	25mm Thick on treads and risers of stairs including reedings	m2	130,00	R	R
CDS 3	3.11.9	30mm Thick on treads and risers of stairs	m2	130,00	R	R
CDS 3	3.11.10	30mm Thick on narrow widths not exceeding 300mm wide	m2	130,00	R	R
CDS 3	3.11.11	Reedings in finish on ramps	m2	130,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.11.12	50 x 50mm Triangular fillets against walls, kerbs, etc	m	130,00	R	R
		Screeds steel trowelled, on concrete				
CDS	3.11.13	25mm Thick on floors and landings	m2	1290,00	R	R
CDS	3.11.14	30mm Thick on floors and landings	m2	430,00	R	R
CDS	3.11.15	30mm Thick on floors on waterproofing membrane	m2	350,00	R	R
CDS	3.11.16	Average 30mm thick on floors with upper surface to falls	m2	130,00	R	R
CDS	3.11.17	Average 30mm thick on floors with upper surface to falls and currents	m2	130,00	R	R
CDS	3.11.18	Average 40mm thick on roofs with upper surface to falls	m2	130,00	R	R
CDS	3.11.19	Average 40mm thick on roofs with upper surface to falls and currents	m2	130,00	R	R
CDS	3.11.20	25mm Thick on treads and risers of stairs including reedings	m2	130,00	R	R
CDS	3.11.21	30mm Thick on treads and risers of stairs	m2	130,00	R	R
CDS	3.11.22	30mm Thick on narrow widths not exceeding 300mm wide	m2	130,00	R	R
CDS	3.11.23	Reedings in finish on ramps	m2	130,00	R	R
CDS	3.11.24	50 x 50mm Triangular fillets against walls, kerbs, etc	m2	130,00	R	R
		GRANOLITHIC				
		Untinted granolithic on concrete				
CDS	3.11.25	25mm Thick on floors and landings	m2	860,00	R	R
CDS	3.11.26	30mm Thick on floors and landings	m2	430,00	R	R
CDS	3.11.27	50mm Thick on floors and landings	m2	350,00	R	R
CDS	3.11.28	Average 30mm thick on floors with upper surface to falls	m2	130,00	R	R
CDS	3.11.29	Average 30mm thick on floors with upper surface to falls and currents	m2	130,00	R	R
CDS	3.11.30	Average 40mm thick on roofs with upper surface to falls	m2	130,00	R	R
CDS	3.11.31	Average 40mm thick on roofs with upper surface to falls and currents	m2	130,00	R	R
CDS	3.11.32	25mm Thick on treads and risers of stairs including reedings	m2	130,00	R	R
CDS	3.11.33	30mm Thick on treads and risers of stairs	m2	130,00	R	R
CDS	3.11.34	30mm Thick on narrow widths not exceeding 300mm wide	m2	130,00	R	R
CDS	3.11.35	Reedings in finish on ramps	m2	130,00	R	R
CDS	3.11.36	Skirtings 100mm high	m	130,00	R	R
CDS	3.11.37	Skirtings 100mm high stepped over treads and risers	m	130,00	R	R
		EXTERNAL PLASTER				
		Class I cement plaster on brickwork				
CDS	3.11.38	On walls	m2	2000,00	R	R

ITEN	NO N	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		Class I cement plaster on concrete						
CDS	3.11.39	On walls / columns	m2	860,00	R		R	
CDS	3.11.40	On soffits / beams	m2	860,00	R		R	
		INTERNAL PLASTER						
		Class I cement plaster on brickwork						
CDS	3.11.41	On walls	m2	1990,00	R		R	
		Class I cement plaster on concrete						
CDS	3.11.42	On walls/ columns	m2	860,00	R		R	
CDS	3.11.43	On soffits / beams	m2	860,00	R		R	
		Rhinolite skim plaster 20mm thick with smooth trowel finish						
CDC	3.11.44		2	950.00	<u> </u>			
		On partition walls	m2	860,00	R		R	
CDS	3.11.45	On plaster board ceilings	m2	860,00	R		R	
CDS	3.11.46	On bulkheads	m2	860,00	R		R	
		CORNER PROTECTORS, DIVIDING STRIPS, ETC						
CDS	3.11.47	3 x 25mm Flat section galvanised mild steel dividing strip set on edge in screed between different floor finishes	m	520,00	R		R	
CDS	3.11.48	3 x 25mm Flat section brass dividing strip or waterbar set on edge in screed between different floor finishes	m	520,00	R		R	
		Materials & Plant						
CDS	3.11.49	Provision for Sundry Materials & Plant	Prov	1,00	R	54 200,00	R	54 200,00
	3.11.50	Allow for profit & attendance if required	%	2,00	R	54 200,00		J : 200,00
		Provisional Sum						
	3.11.51	Sundry Plasterworks	Sum	1,00	R	54 200,00		54 200,00
CDS	3.11.52	Allow for profit & attendance if required	%		R	54 200,00	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:				
CDS	3.12.1	On walls	m2	860,00	R	R
CDS	3.12.2	On narrow widths	m2	260,00	R	R
		Provide the prime cost amount of R 500.00 per m2 for porcelain wall tiles				
		fixed with adhesive to:				
CDS	3.12.3	On walls	m2	860,00	R	R
CDS	3.12.4	On narrow widths	m2	260,00	R	R
		FLOOR TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic floor tiles				
		fixed with adhesive to:				
CDS	3.12.5	On floors	m2	1300,00	R	R
CDS	3.12.6	On narrow widths	m2	258,00	R	R
CDS	3.12.7	On floors landings in patterns	m2	429,00	R	R
		Provide the prime cost amount of R 500.00 per m2 for porcelain floor tiles fixed with adhesive to:		,50		
CDS	3.12.8	On floors	m2	1300,00	R	R
CDS	3.12.9	On narrow widths	m2	260,00	R	R
	3.12.10	On floors landings in patterns	m2	430,00	R	R
CDS	J.12.1U	on noors familings in patterns	IIIZ	430,00	I N	IV

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	E		AMOUNT
		SUNDRIES						
		Aluminium dividing strips						
		Provide the prime cost amount of R 75.00 per m for dividing strips:						
CDS	3.12.11	Flat section dividing strips between tiles	m	170,00	R		R	
CDS	3.12.12	L-section dividing strips between tiles	m	170,00	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:						
CDS	3.12.13	Corner protectors	m	90,00	R		R	
CDS	3.12.14		m	90,00	R		R	
		Stair nosings	m	90,00	K		ĸ	
CDS	3.12.15	Single expansion joint strips with vinyl rubber inlay	m	90,00	R		R	
CDS	3.12.16	Double expansion joint strips with vinyl rubber inlay	m	90,00	R		R	
		Materials & Plant						
	3.12.17 3.12.18	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00		550,00 550,00		135 550,00
CD3	3.12.10	Allow for profit & attenuance if required	/0		K 133	330,00	N	
		Provisional Sum						
	3.12.19	Sundry Tiling Works	Sum	1,00		550,00		135 550,00
CDS	3.12.20	Mark up provision on sundry Tiling Works	%		R 135	550,00	R	
		CARRIED TO SECTION SUMMARY					R	

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 (17/0)				
	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				
	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:				
CDS 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

ITEN	I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Provide the prime cost amount of R 3200.00 each for wash troughs:				
CDS	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:				
CDS	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:				
CDS	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				
CDS	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"				
CDS	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>				
CDS	3.13.7	Provide the prime cost amount of R 5000.00 each for wall mounted urinals	No	30,00	R	R
		Toilets etc				
CDS	3.13.8	Provide the prime cost amount of R 4000.00 each for toilets installed complete	No	60,00	R	R
CDS	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				
CDS	3.13.10	40mm Wash trough waste	No	130,00	R	R
		TRAPS ETC				
		PVC				
CDS	3.13.11	Rubber waste reseal "P" 32x40mm (basin)	No	130,00	R	R
		TAPS, VALVES, ETC				
		Taps, showers etc				
\dashv		1			1	1

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.13.13	Provide the prime cost amount of R 1500.00 each for shower heads	No	30,00	R	R
CDS	3.13.14	Provide the prime cost amount of R 2000.00 each for shower mixers	No	30,00	R	R
CDS	3.13.15	22mm Brass Non-return valve	No	40,00	R	R
		SANITARY PLUMBING				
		uPVC soil and vent pipes				
CDS	3.13.16	40mm Diameter Pipes	m	190,00	R	R
CDS	3.13.17	50mm Diameter Pipes	m	190,00	R	R
CDS	3.13.18	75mm Diameter Pipes	m	190,00	R	R
CDS	3.13.19	110mm Diameter Pipes	m	190,00	R	R
		Extra over uPVC soil and vent pipes for fittings				
CDS	3.13.20	40mm Bend	No	60,00	R	R
CDS	3.13.21	40mm Inspection bend	No	60,00	R	R
CDS	3.13.22	40mm Junction	No	60,00	R	R
CDS	3.13.23	50mm BSP adaptor	No	60,00	R	R
CDS	3.13.24	50mm Bend	No	60,00	R	R
CDS	3.13.25	50mm Inspection bend	No	60,00	R	R
CDS	3.13.26	50mm Junction	No	60,00	R	R
CDS	3.13.27	50mm Access bend	No	60,00	R	R
CDS	3.13.28	50mm vent valve	No	60,00	R	R
CDS	3.13.29	50mm Two way vent valve	No	60,00	R	R
CDS	3.13.30	50mm Inspection junction	No	60,00	R	R
CDS	3.13.31	75mm Bend	No	60,00	R	R
	3.13.32	75mm Inspection bend	No	60,00	R	R
	3.13.33	75mm Junction	No	60,00	R	R
	3.13.34	75mm Inspection junction	No	60,00	R	R
	3.13.35	75mm Reducing junction	No	60,00	R	R
	3.13.36	75mm Inspection reducing junction	No	60,00	R	R
CDS	3.13.37	75mm Reducer	No	60,00	R	R
CDS	3.13.38	110mm Bend	No	60,00	R	R
CDS	3.13.39	110mm Inspection bend	No	60,00	R	R
CDS	3.13.40	110mm Junction	No	60,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.13.41	110mm Inspection junction	No	60,00	R	R
CDS	3.13.42	110mm Reducing junction	No	60,00	R	R
CDS	3.13.43	110mm Inspection reducing junction	No	60,00	R	R
CDS	3.13.44	110mm Reducer	No	60,00	R	R
CDS	3.13.45	110mm Pan connector	No	60,00	R	R
CDS	3.13.46	110mm Two way vent valve	No	60,00	R	R
		Testing				
CDS	3.13.47	Testing waste pipe system	Item	1,00	R	R
		WATER SUPPLIES				
		Class 0 copper pipes with brass compression couplings				
CDS	3.13.48	15mm Pipes	m	190,00	R	R
CDS	3.13.49	15mm Pipes chased into brickwork or concrete	m	190,00	R	R
	3.13.50	22mm Pipes	m	190,00	R	R
	3.13.51	22mm Pipes chased into brickwork or concrete		190,00	R	R
			m			
CDS	3.13.52	28mm Pipes	m	190,00	R	R
CDS	3.13.53	28mm Pipes chased into brickwork or concrete	m	190,00	R	R
CDS	3.13.54	35mm Pipes	m	190,00	R	R
CDS	3.13.55	35mm Pipes chased into brickwork or concrete	m	190,00	R	R
CDS	3.13.56	42mm Pipes	m	190,00	R	R
CDS	3.13.57	54mm Pipes	m	190,00	R	R
CDS	3.13.58	67mm Pipes	m	190,00	R	R
CDS	3.13.59	76mm Pipes	m	190,00	R	R
CDS	3.13.60	108mm Pipes	m	190,00	R	R
		Extra over Class 0 copper pipes for capillary fittings				
CDS	3.13.61	15mm Fittings	No	60,00	R	R
CDS	3.13.62	22mm Fittings	No	60,00	R	R
CDS	3.13.63	28mm Fittings	No	60,00	R	R
CDS	3.13.64	35mm Fittings	No	60,00	R	R
CDS	3.13.65	42mm Fittings	No	60,00	R	R
CDS	3.13.66	54mm Fittings	No	60,00	R	R
CDS	3.13.67	67mm Fittings	No	60,00	R	R
	3.13.68	76mm Fittings	No	60,00	R	R

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.13.69	108mm Fittings	No	60,00	R	R
		Extra over Class 0 copper pipes for brass compression fittings				
CDS	3.13.70	15mm Fittings	No	60,00	R	R
CDS	3.13.71	22mm Fittings	No	60,00	R	R
CDS	3.13.72	28mm Fittings	No	60,00	R	R
CDS	3.13.73	35mm Fittings	No	60,00	R	R
CDS	3.13.74	42mm Fittings	No	60,00	R	R
CDS	3.13.75	54mm Fittings	No	60,00	R	R
CDS	3.13.76	67mm Fittings	No	60,00	R	R
CDS	3.13.77	76mm Fittings	No	60,00	R	R
CDS	3.13.78	108mm Fittings	No	60,00	R	R
		Class 12.5 "HDPE" Pipes				
CDS	3.13.79	20mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	190,00	R	R
CDS	3.13.80	32mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	190,00	R	R
CDS	3.13.81	40mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	190,00	R	R
CDS	3.13.82	50mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	190,00	R	R
CDS	3.13.83	75mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	190,00	R	R
CDS	3.13.84	90mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	190,00	R	R
CDS	3.13.85	110mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	190,00	R	R
		Extra over "HDPE" for fittings				
CDS	3.13.86	20mm Diameter Straight Coupling	No	60,00	R	R
	3.13.87	20mm Diameter Reducing Coupling	No	60,00	R	R
	3.13.88	20mm Diameter Equal Tee	No	60,00	R	R
	3.13.89	20mm Diameter Male Adaptor	No	60,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.13.90	20mm Diameter 90 Degree Elbow	No	60,00	R	R
CDS	3.13.91	40mm Diameter Straight Coupling	No	60,00	R	R
CDS	3.13.92	40mm Diameter Reducing Coupling	No	60,00	R	R
CDS	3.13.93	40mm Diameter Equal Tee	No	60,00	R	R
CDS	3.13.94	40mm Diameter Male Adaptor	No	60,00	R	R
CDS	3.13.95	40mm Diameter 90 Degree Elbow	No	60,00	R	R
CDS	3.13.96	50mm Diameter Straight Coupling	No	60,00	R	R
CDS	3.13.97	50mm Diameter Reducing Coupling	No	60,00	R	R
CDS	3.13.98	50mm Diameter Equal Tee	No	60,00	R	R
CDS	3.13.99	50mm Diameter Male Adaptor	No	60,00	R	R
CDS	3.13.100	50mm Diameter 90 Degree Elbow	No	60,00	R	R
CDS	3.13.101	75mm Diameter Straight Coupling	No	60,00	R	R
CDS	3.13.102	75mm Diameter Reducing Coupling	No	60,00	R	R
CDS	3.13.103	75mm Diameter Equal Tee	No	60,00	R	R
CDS	3.13.104	75mm Diameter Male Adaptor	No	60,00	R	R
CDS	3.13.105	75mm Diameter 90 Degree Elbow	No	60,00	R	R
CDS	3.13.106	90mm Diameter Straight Coupling	No	60,00	R	R
CDS	3.13.107	90mm Diameter Reducing Coupling	No	60,00	R	R
CDS	3.13.108	90mm Diameter Equal Tee	No	60,00	R	R
CDS	3.13.109	90mm Diameter Male Adaptor	No	60,00	R	R
CDS	3.13.110	90mm Diameter 90 Degree Elbow	No	60,00	R	R
CDS	3.13.111	110mm Diameter Straight Coupling	No	60,00	R	R
CDS	3.13.112	110mm Diameter Reducing Coupling	No	60,00	R	R
CDS	3.13.113	110mm Diameter Equal Tee	No	60,00	R	R
CDS	3.13.114	110mm Diameter Male Adaptor	No	60,00	R	R
CDS	3.13.115	110mm Diameter 90 Degree Elbow	No	60,00	R	R
		ELECTRIC WATER HEATERS				
		"Kwikot" or similar approved including all fittings, adaptors,				
		couplings, etc, for connection to the relevant piping.				
CDS	3.13.116	Provide the prime cost amount of R 3000.00 each for undercounter geysers	No	31,00	R	R
CDS	3.13.117	Provide the prime cost amount of R 7000.00 each for 100 litre geysers	No	30,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	3.13.118	Provide the prime cost amount of R 9000.00 each for 150 litre geysers	No	30,00	R	R
CDS	3.13.119	Provide the prime cost amount of R 11000.00 each for 200 litre geysers	No	21,00	R	R
		Testing				
CDS	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				
CDS	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				
CDS	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 162 650,00 R 162 650,00	
		Provisional Sum				
CDS	3.13.125	Sundry Plumbing Works	Sum	1,00	R 162 650,00	R 162 650,00
CDS	3.13.126	Allow for profit & attendance if required	%		R 162 650,00	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	/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)				
CDS	3.14.1	On internal walls	m2	2000,00	R	R
CDS	3.14.2	On external walls	m2	2000,00	R	R
CDS	3.14.3	On ceilings and beams	m2	2000,00	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)				
CDS	3.14.4	On partitions	m2	1290,00	R	R
CDS	3.14.5	On ceilings and cornices	m2	1290,00	R	R
CDS	3.14.6	On fascias and barge boards	m2	430,00	R	R
		Apply one coat Professional Alkali resistant plaster primer and three coats Paint (Professional Superior Matt Paint)				
CDS	3.14.7	On Rhinolite walls	m2	1290,00	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)				
CDS	3.14.8	On doors	m2	430,00	R	R
CDS	3.14.9	On door frames	m2	430,00	R	R
CDS	3.14.10	On windows	m2	430,00	R	R
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)				
CDS	3.14.11	On palisade fencing	m2	860,00	R	R
CDS	3.14.12	On steel barriers	m2	430,00	R	R
CDS	3.14.13	On balustrades	m2	430,00	R	R
CDS	3.14.14	On gates, grilles, burglar screens etc.	m2	430,00	R	R
						1

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)				
CDS	3.14.15	On boarded panelling	m2	430,00	R	R
CDS	3.14.16	On boarded ceilings	m2	430,00	R	R
CDS	3.14.17	On doors	m2	430,00	R	R
CDS	3.14.18	On door frames	m2	430,00	R	R
CDS	3.14.19	On skirtings	m	430,00	R	R
		Prime bare areas with "Wood Primer" and apply two coats "Timber Varnish" (High gloss wood varnish)				
CDS	3.14.20	On boarded panelling	m2	430,00	R	R
CDS	3.14.21	On boarded ceilings	m2	430,00	R	R
CDS	3.14.22	On doors	m2	430,00	R	R
CDS	3.14.23	On door frames	m2	430,00	R	R
CDS	3.14.24	On skirtings	m	430,00	R	R
		STEEL ROOFS				
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)				
CDS	3.14.25	On metal roof sheets	m2	2300,00	R	R
CDS	3.14.26	To cladding sheets	m2	860,00	R	R
		PREVIOUSLY PAINTED SURFACES				
		"Plascon professional range" or equal approved				
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
CDS	3.14.27	On internal walls	m2	2000,00	R	R
CDS	3.14.28	On external walls	m2	2000,00	R	R
CDS	3.14.29	On ceilings and beams	m2	2000,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Matt Paint)				
CDS	3.14.30	On partitions	m2	1290,00	R	R
CDS	3.14.31	On ceilings and cornices	m2	1290,00	R	R
CDS	3.14.32	On fascias and barge boards	m2	430,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
CDS	3.14.33	On Rhinolite walls	m2	860,00	R	R

ITEN	M 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)				
CDS	3.14.34	Windows and door frames	m2	430,00	R	R
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)				
CDS	3.14.35	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat ares)	m2	430,00	R	R
		PAINT ON WOOD				
		Prepare and apply two full coats plascon alkyd enamel paint				
CDS	3.14.36	On general surfaces	m2	430,00	R	R
		Prepare and apply two full coats plascon alkyd enamel paint				
CDS	3.14.37	On boarded panelling	m2	430,00	R	R
CDS	3.14.38	On boarded ceilings	m2	430,00	R	R
CDS	3.14.39	On doors	m2	430,00	R	R
CDS	3.14.40	On door frames	m2	430,00	R	R
CDS	3.14.41	On skirtings	m	430,00	R	R
		Prepare and apply two coats "Timber Varnish" (High gloss wood varnish)				
CDS	3.14.42	On boarded panelling	m2	430,00	R	R
CDS	3.14.43	On boarded ceilings	m2	430,00	R	R
CDS	3.14.44	On doors	m2	430,00	R	R
CDS	3.14.45	On door frames	m2	430,00	R	R
CDS	3.14.46	On skirtings	m	430,00	R	R
		STEEL ROOFS				
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)				
CDS	3.14.47	On metal roof sheets	m2	2300,00	R	R
CDS	3.14.48	To cladding sheets	m2	437,00	R	R
		Materials & Plant				
	3.14.49	Provision for Sundry Materials & Plant	Prov	1,00	R 135 550,0	
CDS	3.14.50	Allow for profit & attendance if required Provisional Sum	%		R 135 550,0	DI R
CDS	3.14.51 3.14.52	Sundry Paint Works Allow for profit & attendance if required	Sum %	1,00	R 135 550,0	

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	16	R
	Aiterations	10	TX .
2	Earthworks	19	R
3	Concrete, Formwork & Reinforcement	24	R
4	Macanny	27	D
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 3 CDSIA		
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					
CDS 4.1.1	Trim and level terraced area and compact to set levels.	m2	1290,00	R	R	
	Digging up topsoil					
CDS 4.1.2	Digging up topsoil to an average depth of 150mm and preserving for use	m3	260,00	R	R	
	as filling					
	BULK EXCAVATION, FILLING ETC					
CDS 4.1.3	Open face excavation in earth over sloping site	m3	170,00	R	R	
	Excavation					
CDS 4.1.4	Excavate in earth not exceeding 1000mm deep	m3	90,00	R	R	
	Keeping excavations free of water					
CDS 4.1.5	Keeping excavations free of water	Item	1,00	R	R	
	Extra over all excavations for carting away					
CDS 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					
CDS 4.1.7	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	60,00	R	R	
	Filling supplied by the contractor under parking areas, roadways, etc					
CDS 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	430,00	R	R	

ITEN	NO NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CDS	4.1.9	G8 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	40,00	R	R
CDS	4.1.10	G7 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	40,00	R	R
CDS	4.1.11	G7 Gravel-soil material in 150mm layers compacted to 95% Mod AASHTO density	m3	40,00	R	R
CDS	4.1.12	Extra over for G7 stabilised with Portland cement compacted to 95% Mod AASHTO density	m3	40,00	R	R
CDS	4.1.13	Subbase course of G6 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	40,00	R	R
CDS	4.1.14	G5 Natural gravel material compacted in 150mm layers to 93% Mod AASHTO density	m3	40,00	R	R
CDS	4.1.15	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	40,00	R	R
CDS	4.1.16	Base course of G4 natural gravel material in 150mm layers compacted to 98% Mod AASHTO density	m3	40,00	R	R
CDS	4.1.17	G2 base compacted to 100% Mod AASHTO density	m3	40,00	R	R
		Compaction of surfaces				
CDS	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	1290,00	R	R
		SOIL POISONING				
		35/ET GISCHING				
		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				
CDS	4.1.19	Under roads, paving etc.	m2	1290,00	R	R
		TESTS				
CDS	4.1.20	Prescribed tests to determine degree of compaction or similar approved properties of ground or filling				
CDS	4.1.21	"Modified AASHTO Density" test	No	1,00	R	R
CDS	4.1.22	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	1,00	R	R
CDS	4.1.23	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	1,00	R	R
CDS	4.1.24	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	1,00	R	R
CDS	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				
CDS 4.1.26	Paving to roadwork and parking to falls	m2	1340,00	R	R
CDS 4.1.27	Extra over for curved edges	m	433,00	R	R
	Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing				
	KERBS ETC				
CDS 4.1.28	Fig.1 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.29	Fig.2 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.30	Fig.3 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.31	Fig.4 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.32	Fig.5 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.33	Fig.6 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.34	Fig.6 Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.35	Fig.7 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.36	Fig.8 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.37	Fig.8b Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.38	Fig.8c Kerbing - Mountable with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.39	Fig.12 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.40	Fig.14 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	40,00	R	R
CDS 4.1.41	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				
CDS 4.1.42	100mm Wide line	m	90,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
CDC	4 1 42	450 mars Wide line		00.00			R	
CDS	4.1.43	150mm Wide line	m	90,00	R		К	
CDS	4.1.44	300mm Wide line	m	40,00	R		R	
CDS	4.1.45	Standard type directional arrow not exceeding 1m2	No	1,00	R		R	
CDS	4.1.46	2500 x 2000mm Wide "traffic arrow" road marking paint	No	1,00	R		R	
CDS	4.1.47	5400 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
CDS	4.1.48	6000 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
CDS	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	54 200,00 54 200,00		54 200,00
CDS	4.1.51	Allow for profit & attendance if required	%		R	54 200,00	К	
		Provisional Sum						
CDS	4.1.52	Sundry Road Works	Cum	1.00	D	54 200,00	D	E4 200 00
	4.1.52	Allow for profit & attendance if required	Sum %	1,00	R R	54 200,00		54 200,00
CDS	4.1.55	Allow for profit & attendance if required	70		- 11	34 200,00	11	
		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				
CDS 4.2.1	110mm Diameter pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	296,00	R	R
	Extra over for uPVC fittings				
CDS 4.2.2	110mm Bend	No	50,00	R	R
CDS 4.2.3	110mm Junction	No	50,00	R	R
CDS 4.2.4	110mm Access junction	No	50,00	R	R
CDS 4.2.5	110mm Rodding Eye	No	50,00	R	R
	uPVC pipe Class 34 HD				
CDS 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	300,00	R	R
	Extra over for uPVC fittings				
CDS 4.2.7	160mm Bend	No	50,00	R	R
CDS 4.2.8	160mm Junction	No	50,00	R	R

CDS						AMOUNT
	4.2.9	160mm Access junction	No	50,00	R	R
CDS	4.2.10	160mm Rodding Eye	No	50,00	R	R
CDS 4	4.2.11	Catch pits and junction boxes	No	50,00	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:				
CDS	4.2.12	Over 0m and up to 1.0m	No	12,00	R	R
CDS	4.2.13	Over 1.0m and up to 2.0m	No	10,00	R	R
CDS	4.2.14	Over 2m and up to 3m	No	10,00	R	R
			NO	10,00	IX.	
CDS	4.2.15	Over 3m and up to 4m	No	10,00	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:				
CDS 4	4.2.16	Over 0m and up to 1.0m	No	5,00	R	R
			Nie		D.	
CDS	4.2.17	Over 1.0m and up to 2.0m	No	5,00	R	R
CDS 4	4.2.18	Over 2m and up to 3m	No	5,00	R	R
CDS	4.2.19	Over 3m and up to 4m	No	5,00	R	R
		Testing Drainage System				
CDC	4 2 20		Itama	1.00	D	D
CDS	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 27 100,00	
CDS	4.2.22	Allow for profit & attendance if required	%		R 27 100,00	R
		Provisional Sum				
CDS 4	4.2.23	Sundry Drainage Works	Sum	1,00	R 27 100,00	R 27 100,00
	4.2.24	Allow for profit & attendance if required	%		R 27 100,00	
		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)				
	Pipes shall be bedued in accordance with SABS 1200LB. Beduling (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:				
CDS 4.3.1	Over 0m and up to 1.0m	No	10,00	R	R
CDS 4.3.2	Over 1.0m and up to 2.0m	No	10,00	R	R
		.,,			
CDS 4.3.3	Over 2m and up to 3m	No	10,00	R	R
CDS 4.3.4	Over 3m and up to 4m	No	10,00	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:				
CDS 4.3.5	Over 0m and up to 1.0m	No	3,00	R	R
CDS 4.3.6	Over 1.0m and up to 2.0m	No	3,00	R	R
CDS 4.3.7	Over 2m and up to 3m	No	3,00	R	R
CDC 1 5 5			2.00		
CDS 4.3.8	Over 3m and up to 4m	No	3,00	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				
CDS	4.3.9	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	190,00	R	R
CDS	4.3.10	110mm Pipes laid in and including trenches not exceeding 1m deep	m	90,00	R	R
		Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings				
CDS	4.3.11	110mm Bend	No	20,00	R	R
CDS	4.3.12	110mm Junction	No	20,00	R	R
CDS	4.3.13	110mm Access bend	No	20,00	R	R
CDS	4.3.14	110mm Access junction	No	20,00	R	R
CDS	4.3.15	110mm Rodding eye	No	20,00	R	R
		Class 34 uPVC pipes				
CDS	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	280,00	R	R
		Extra over items for uPVC fittings				
CDS	4.3.17	160 x 110 mm Diameter Y junction	No	20,00	R	R
CDS	4.3.18	160 x 160 mm Diameter Y junction	No	20,00	R	R
		Channel bends				
CDS	4.3.19	160mm Diameter 45 degree bend	No	20,00	R	R
CDS	4.3.20	160mm Diameter 90 degree bend	No	20,00	R	R
		Sockets				
CDS	4.3.21	160mm Diameter	No	20,00	R	R
		End caps				
CDS	4.3.22	160mm Diameter	No	20,00	R	R
		SUNDRIES		,		
CDS	4.3.23	Excavation in earth for pipe trenches, chambers, etc	m3	40,00	R	R
CDS	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
CDS	4.3.25	Risk of collapse to sides of trenches	m2	130,00	R	R
CDS	4.3.26	Extra over backfilling to drain trenches, chambers, etc for Class B bedding cradle of compacted selected granular material	m3	20,00	R	R
CDS	4.3.27	25Mpa unreinforced concrete encasing to horizontal pipes laid in trenches N.E 1m deep	m3	28,00	R	R
		WATER				

CDS 4.3. CDS 4.3. CDS 4.3. CDS 4.3. CDS 4.3. CDS 4.3.	uPVC gulleys 3.29 110mm Gulley not exceeding 750mm deep including trap, head, grating etc Testing 3.30 Testing drainage system Materials & Plant 3.31 Provision for Sundry Materials & Plant 3.32 Allow for profit & attendance if required Provisional Sum 3.33 Sundry Sewer Reticulation Works	Item No Prov %	1,00	R R R	27 100,00	R R	
CDS 4.3. CDS 4.3. CDS 4.3. CDS 4.3.	110mm Gulley not exceeding 750mm deep including trap, head, grating etc Testing 3.30 Testing drainage system Materials & Plant 3.31 Provision for Sundry Materials & Plant 3.32 Allow for profit & attendance if required Provisional Sum 3.33 Sundry Sewer Reticulation Works	Item Prov %	1,00	R		R	
CDS 4.3. CDS 4.3. CDS 4.3. CDS 4.3.	110mm Gulley not exceeding 750mm deep including trap, head, grating etc Testing 3.30 Testing drainage system Materials & Plant 3.31 Provision for Sundry Materials & Plant 3.32 Allow for profit & attendance if required Provisional Sum 3.33 Sundry Sewer Reticulation Works	Item Prov %	1,00	R		R	
CDS 4.3. CDS 4.3. CDS 4.3. CDS 4.3.	Testing 3.30 Testing drainage system Materials & Plant 3.31 Provision for Sundry Materials & Plant 3.32 Allow for profit & attendance if required Provisional Sum 3.33 Sundry Sewer Reticulation Works	Item Prov %	1,00	R		R	
CDS 4.3. CDS 4.3. CDS 4.3.	3.30 Testing drainage system Materials & Plant 3.31 Provision for Sundry Materials & Plant 3.32 Allow for profit & attendance if required Provisional Sum 3.33 Sundry Sewer Reticulation Works	Prov %		R			
CDS 4.3. CDS 4.3. CDS 4.3.	3.30 Testing drainage system Materials & Plant 3.31 Provision for Sundry Materials & Plant 3.32 Allow for profit & attendance if required Provisional Sum 3.33 Sundry Sewer Reticulation Works	Prov %		R			
CDS 4.3. CDS 4.3. CDS 4.3.	Materials & Plant 3.31 Provision for Sundry Materials & Plant 3.32 Allow for profit & attendance if required Provisional Sum 3.33 Sundry Sewer Reticulation Works	Prov %		R			
CDS 4.3.	3.31 Provision for Sundry Materials & Plant 3.32 Allow for profit & attendance if required Provisional Sum 3.33 Sundry Sewer Reticulation Works	%	1,00			D.	
CDS 4.3.	Provisional Sum Sundry Sewer Reticulation Works	%	1,00			n	
CDS 4.3.	Provisional Sum Sundry Sewer Reticulation Works	%	,			ĸ	27 100,00
	3.33 Sundry Sewer Reticulation Works				27 100,00		
	3.33 Sundry Sewer Reticulation Works						
			1.00	_	27 100 00		27.400.00
	3.54 Allow for profit & attendance if required	Sum %	1,00	R R	27 100,00 27 100,00		27 100,00
	CARRIED TO SECTION SUMMA	RY				R	

	CECTION 4 CUMMARY EXTERNAL WORKS	DAGE NO	ANACHINIT
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

	NO DESCRIPTION	UNIT	CLUSTER 3 CDSIA					
ITEM NO			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							
CDS 5.1	Provide the sum of R471,000.00 for Lateral Support, Ground Anchoring, Piling & Underpinning, Etc by an approved sub-contractor	Sum	1,00	R 471 000,00	R 471 000,			
CDS 5.2	Allow for profit & attendance if required	%		R 471 000,00	R			
	ROOF COVERINGS, CLADDINGS ETC							
CDS 5.3	Provide the sum of R2 828,000.00 for Roof Coverings, Claddings Etc by an approved sub-contractor	Sum	1,00	R 2 828 000,00	R 2 828 000,			
CDS 5.4	Allow for profit & attendance if required	%		R 2 828 000,00	R			
	STRUCTURAL STEELWORK							
CDS 5.5	Provide the sum of R2 828,000.00 for Structural Steelwork by an approved sub-contractor	Sum	1,00	R 2 828 000,00	R 2 828 000,			
CDS 5.6	Allow for profit & attendance if required	%		R 2 828 000,00	R			
	JOINERY & CABINETRY INSTALLATION							
CDS 5.7	Provide the sum of R471,000.00 for the joinery & cabinetry installation by an approved sub-contractor	Sum	1,00	R 471 000,00	R 471 000,			
CDS 5.8	Allow for profit & attendance if required	%		R 471 000,00	R			

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ROLLER SHUTTERS & HANGAR DOORS						
CDS	5.9	Provide the sum of R942,000.00 for Roller Shutters & Hangar Doors by an approved sub-contractor	Sum	1,00	R	942 000,00	R	942 000,00
CDS	5.10	Allow for profit & attendance if required	%		R	942 000,00	R	
		GENERAL GLAZING						
CDS	5.11	Provide the sum of R471,000.00 for General Glazing by an approved sub- contractor	Sum	1,00	R	471 000,00	R	471 000,00
CDS	5.12	Allow for profit & attendance if required	%		R	471 000,00	R	
		ALUMINIUM FACADE CLADDING, SHOPFRONTS, WINDOWS AND DOORS						
CDS	5.13	Provide the sum of R942,000.00 for aluminium façade cladding, shopfronts, window and door installation by an approved sub-contractor	Sum	1,00	R	942 000,00	R	942 000,00
CDS	5.14	Allow for profit & attendance if required	%		R	942 000,00	R	
		SIGNAGE						
CDS	5.15	Provide the sum of R471,000.00 for corporate and directional signage by an approved subcontractor	Sum	1,00	R	471 000,00	R	471 000,00
CDS	5.16	Allow for profit & attendance if required	%		R	471 000,00	R	
		BLINDS, FURNITURE & FITTINGS						
CDS	5.17	Provide the sum of R706,000.00 for blinds, furniture and fittings by an approved subcontractor	Sum	1,00	R	706 000,00	R	706 000,00
CDS	5.18	Allow for profit & attendance if required	%		R	706 000,00	R	
		TENANT TEMPORARY RELOCATION & REINSTATEMENT						
CDS	5.19	Provide the sum of R 471,000.00 for tenant temporary relocation and reinstatement works by an approved subcontractor	Sum	1,00	R	471 000,00	R	471 000,00
CDS	5.20	Allow for profit & attendance if required	%		R	471 000,00	R	
		ASBESTOS REMOVAL						
CDS	5.21	Provide the sum of R471,000.00 for the Removal & Safe Disposal of Asbestos by an approved subcontractor	Sum	1,00	R	471 000,00	R	471 000,00
CDS	5.22	Allow for profit & attendance if required	%		R	471 000,00	R	
		GUTTERS & RAINWATER DISPOSAL SYSTEMS						
CDS	5.23	Provide the sum of R942,000.00 for Gutters & Rainwater Disposal Systems by an approved subcontractor	Sum	1,00	R	942 000,00	R	942 000,00
CDS	5.24	Allow for profit & attendance if required	%		R	942 000,00	R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	ELECTRICAL, ELECTRONIC AND MECHANICAL INSTALLATIONS				
	GENERAL ELECTRICAL INSTALLATIONS				
CDS 5.25	Provide the sum of R2 828,000.0 for General Electical Installations by an approved subcontractor	Prov	1,00	R 2 828 000,00	D R 2 828 000,0
CDS 5.26	Allow for profit & attendance if required	%		R 2 828 000,00) R
	SUB - STATION INSTALLATIONS				
CDS 5.27	Provide the sum of R471,000.00 for Sub Station Installations by an approved subcontractor	Sum	1,00	R 471 000,00	D R 471 000,0
CDS 5.28	Allow for profit & attendance if required	%		R 471 000,00	D R
	UPS INSTALLATIONS				
CDS 5.29	Provide the sum of R471,000.00 for UPS Installations by an approved subcontractor	Sum	1,00	R 471 000,00	D R 471 000,0
CDS 5.30	Allow for profit & attendance if required	%		R 471 000,0	D R
	GENERATOR INSTALLATION				
CDS 5.31	Provide the sum of R471,000.00 for the Generator Installation by an approved sub-contractor	Sum	1,00	R 471 000,00	R 471 000,0
CDS 5.32	Allow for profit & attendance if required	%		R 471 000,00) R
	FIRE DETECTION & FIRE STOPPING INSTALLATION				
CDS 5.33	Provide the sum of R706,000.00 for the Fire Detection & Fire Stopping Installation by an approved sub-contractor	Sum	1,00	R 706 000,00	R 706 000,0
CDS 5.34	Allow for profit & attendance if required	%		R 706 000,0	D R
	ACCESS CONTROL				
CDS 5.35	Provide the sum of R235,000.00 for the Access Control System installation by an approved sub-contractor	Sum	1,00	R 235 000,00	D R 235 000,0
CDS 5.36	Allow for profit & attendance if required	%		R 235 000,00	D R
	CCTV INSTALLATION				
CDS 5.37	Provide the sum of R235,000.00 for CCTV installation by an approved sub- contractor	Sum	1,00	R 235 000,00	D R 235 000,0
CDS 5.38	Allow for profit & attendance if required	%		R 235 000,00	D R
	INTERNET AND TELECOMMUNICATION INSTALLATION				
CDS 5.39	Provide the sum of R471,000.00 for the internet and telecommunication installation by an approved subcontractor	Sum	1,00	R 471 000,00	D R 471 000,0
CDS 5.40	Allow for profit & attendance if required	%		R 471 000,00	D R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		GENERAL MECHANICAL INSTALLATION				
CDS	5.41	Provide the sum of R2 828,000.00 for General Mechanical Installations by an approved subcontractor	Prov	1,00	R 2 828 000,00	R 2 828 000,00
CDS	5.42	Allow for profit & attendance if required	%		R 2 828 000,00	R
		FIRE PROTECTION INSTALLATIONS				
CDS	5.43	Provide the sum of R471,000.00 for Fire Protection Installations by an approved subcontractor	Sum	1,00	R 471 000,00	R 471 000,00
CDS	5.44	Allow for profit & attendance if required	%		R 471 000,00	R
		SPRINKLER INSTALLATIONS				
CDS	5.45	Provide the sum of R942,000.00 for Sprinkler Installations by an approved subcontractor	Sum	1,00	R 942 000,00	R 942 000,00
CDS	5.46	Allow for profit & attendance if required	%		R 942 000,00	R
		GAS SUPPRESSION INSTALLATIONS				
CDS	5.47	Provide the sum of R942,000.00 for Gas Suppression Installations by an approved subcontractor	Sum	1,00	R 942 000,00	R 942 000,00
CDS	5.48	Allow for profit & attendance if required	%		R 942 000,00	R
		SMOKE EXTRACTION INSTALLATIONS				
CDS	5.49	Provide the sum of R942,000.00 for Smoke Extraction Installations by an approved subcontractor	Sum	1,00	R 942 000,00	R 942 000,00
CDS	5.50	Allow for profit & attendance if required	%		R 942 000,00	R
		HVAC INSTALLATION				
CDS	5.51	Provide the sum of R2 828,000.00 for the HVAC installation by an approved sub-contractor	Sum	1,00	R 2 828 000,00	R 2 828 000,00
CDS	5.52	Allow for profit & attendance if required	%		R 2 828 000,00	R
		LANDSCAPING WORKS				
CDS	5.53	Provide the sum of R942,000.00 for Landscaping Works by an approved sub-contractor	Sum	1,00	R 942 000,00	R 942 000,00
CDS	5.54	Allow for profit & attendance if required	%		R 942 000,00	R
		SPECIALIST WORKS				
CDS	5.55	Provide the sum of R471,000.00 for Specialist Works by an approved sub-contractor	Prov	1,00	R 471 000,00	R 471 000,00
CDS	5.56	Allow for profit & attendance if required	%		R 471 000,00	R
		CARRIED TO SITE SUMMARY				R

				CLUSTER	. 3			
			CDSIA					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN			
	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							
CDS 6.1	General building / building rubble waste to landfill	ton	260,00	R	R			
	RECYCLING / REPURPOSING RETURN							
CDS 6.2	Glass	Kg	860,00	(-R	(-R			
CDS 6.3	Plastics	Kg	860,00	(-R	(-R			
CDS 6.4	Steel	Kg	860,00	(-R	(-R			
CDS 6.5	Stainless Steel	Kg	860,00	(-R	(-R			
CDS 6.6	Copper		860,00	(-R	(-R			
	СОРРСІ	Kg						
CDS 6.7	Aluminium	Kg	860,00	(-R	(-R			
CDS 6.8	Brass	Kg	860,00	(-R	(-R			
CDS 6.9	Iron	Kg	860,00	(-R	(-R			
		3	,		1			

					CDSIA	
ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE	AMOUNT
	HAZARDOUS WASTE					
	Provisional Sum					
CDS 6.10 CDS 6.11	Hazardous Waste Classification & Disposal Costs Allow for profit & attendance if required	Sum %	1,00	R R	619 570,00 619 570,00	R 619 570,0
CD3 0.11	Anow for profit & attendance in required	70		11	013 370,00	T.
	CARRIED TO SITE SUMMARY	,				R

	SITE SUMMARY - CDSIA	PAGE NO.	AMOUNT
		TAGE NO.	7 4 11 2 3 1 1
	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

KING PHALO AIRPORT - KPA

				CLUSTER KPA	5
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	CECTION 4				
	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 Home. In general the cum tendered for each fixed charge				
	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				
	net cost plus agreed mark ap				
	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				
	ENER GUARGE ITEMS				
	FIXED CHARGE ITEMS				1
KPA 1.1	General Insurance Requirement (Sureties, guarantees, bonds, workman's compensation etc)	Sum	1,00	R	R
					1
KPA 1.2	Contract works insurance	Sum	1,00	R	R
KPA 1.3	Public liability insurance	Sum	1,00	R	R

ITEM N	10	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		TIME RELATED ITEMS						
		Operation and Maintenance of Facilities on Site, for duration of						
		construction, except where otherwise stated						
KPA 1.5	5	Offices (Accommodates up to 5 staff x 1 off)	month	24,00	R		R	
KDA 1.0	_	Charges should (42m v. 2 Am v. 4 off Hashindas Dalinam (8 Damanal)		24.00	_		•	
KPA 1.6)	Storage sheds (12m x 2.4m x 1 off - Includes Delivery & Removal)	month	24,00	R		R	
KPA 1.7	7	Ablution & Latrine facilities (5 x Male & 3 x Urinal & 3 x Female & 1 x Paraplegic & 2 x Standalone Units)	month	24,00	R		R	
KPA 1.8	3	Electric Power & Lighting	month	24,00	R		R	
KPA 1.9)	Water supplies, electric power and communications	month	24,00	R		R	
		Supervision						
		Supervisor/Foreman						
KPA 1.1	10	Site Supervision for the duration of the contract (x 1 Resource)	month	24,00	R		R	
		Safety Management						
KPA 1.1	11	Provision of full time Construction Site Safety Officer (x 1 Resource)	month	24,00	R		R	
KPA 1.1	12	Compliance with the Occupational Health and Safety Act (OHSA) and	month	24,00	R		R	
NPA 1.1		Regulations (including the Construction Regulations, 2014)	IIIOIIIII	24,00	N.		n	
KPA 1.1	13	Site Security	month	24,00	R		R	
KPA 1.1	14	Signage for the site	month	24,00	R		R	
KPA 1.1	15	Other time related obligations	month	24,00	R		R	
KI 71 1.1		other time related obligations	month	24,00				
		VALUE RELATED ITEMS						
KPA 1.1	16	Contractual requirements	Sum	1,00	R		R	
KPA 1.1		Provision for Specialised PPE Requirements	Prov	1,00	R	62 586,45		62 58
KPA 1.1	18	Allow for profit & attendance if required	%		R	62 586,45	R	
KPA 1.1	19	Provision for Location and Protection of Existing Underground Services	Prov	1,00	R	37 551,87		37 55
KPA 1.2	20	Allow for profit & attendance if required	%		R	37 551,87	R	
KPA 1.2	21	Provision for Compliance with Environmental requirements	Prov	1,00	R	37 551,87	R	37 55
KPA 1.2	22	Allow for profit & attendance if required	%		R	37 551,87		
KPA 1.2	23	Provision for ACSA Training and Airports Permits (ACSA Issue)	Prov	1,00	R	125 172,89	R	125 17
KPA 1.2		Allow for profit & attendance if required	%		R	125 172,89		
		Materials & Plant						
KPA 1.2	25	Provision for Sundry Materials & Plant	Prov	1,00	R	78 750,00	R	78 75
KPA 1.2	26	Allow for profit & attendance if required	%		R	78 750,00		
		Provisional Sum						
						70		===
KPA 1.2		Sundry preliminary requirements Allow for profit & attendance if required	Prov %	1,00	R R	78 750,00 78 750,00		78 750
/ \ 1.2			/0		- ' '	, 5 , 50,00		

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

		DESCRIPTION	UNIT	CLUSTER 3 KPA				
ITEM	1 NO			QUANTITY	RATE	AMOUNT		
		CECTION 2						
		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)						
KPA 2	2.1	Normal Hours	Man	350,00	R	R		
			Hours					
KPA 2	2.2	After Hours		100,00	R	R		
KPA 2	2 3	Sundays & Public Holidays	Hours Man	50,00	R	R		
		Sandays a rashe nondays	Hours	30,00		"		
		Additional Supervisor / Foreman (Civil Works)						
KPA 2	2.4	Normal Hours	-	200,00	R	R		
KPA 2	2 5	After Hours	Hours	100,00	D	D		
KPA .	2.5	Alter nours	Man Hours	100,00	R	R		
KPA 2	2.6	Sundays & Public Holidays		50,00	R	R		
		· · · · ·	Hours	•				
		Handana.						
KPA 2	2 7	Handyman Normal Hours	Man	300,00	R	R		
N 7	,	Notified Flours	Hours	300,00	"	"		
KPA 2	2.8	After Hours		100,00	R	R		
			Hours					
KPA 2	2.9	Sundays & Public Holidays	Man Hours	50,00	R	R		
			Tiours					
		Brick Layer						
KPA 2	2.10	Normal Hours		200,00	R	R		
1/2:	2.11		Hours	400.00				
KPA 2	2.11	After Hours	Man Hours	100,00	R	R		
KPA 2	2.12	Sundays & Public Holidays		50,00	R	R		
		2023,5 2 . 225 (10.184)5	Hours					
-								
I/D A	2.42	Carpenter	N 4 -	200.00	D.			
KPA 2	2.13	Normal Hours	Man Hours	300,00	R	R		
KPA 2	2.14	After Hours		100,00	R	R		
,		Auter Hours	Hours	_00,00	1.,			
KPA 2	2.15	Sundays & Public Holidays		50,00	R	R		
1			Hours					

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Tiler				
KPA	2.16	Normal Hours	Man	200,00	R	R
KDA	2.17	After Hours	Hours	100,00	R	R
KPA	2.17	Aiter nours	Man Hours	100,00	K	l n
KPA	2.18	Sundays & Public Holidays	Man Hours	50,00	R	R
		Plasterer				R -
KPA	2.19	Normal Hours		200,00	R	R
KPA	2.20	After Hours	Hours Man	100,00	R	R
ΚΡΔ	2.21	Sundays & Public Holidays	Hours Man	50,00	R	R
NI A	2.21	Suridays & Fubile Holidays	Hours	30,00	I N	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		Painter				
KPA	2.22	Normal Hours	Man	300,00	R	R
KPA	2.23	After Hours	Hours Man	100,00	R	R
			Hours			
KPA	2.24	Sundays & Public Holidays	Man Hours	50,00	R	R
KPA	2.25	Welder Normal Hours		300,00	R	R
KPA	2.26	After Hours		100,00	R	R
KPA	2.27	Sundays & Public Holidays	Hours Man	50,00	R	R
			Hours			
		General Assistant				
KPA	2.28	Normal Hours	Man Hours	1350,00	R	R
KPA	2.29	After Hours	Man	100,00	R	R
KPA	2.30	Sundays & Public Holidays	Hours Man	50,00	R	R
			Hours			
		Shutterhand / Formwork Specialist Installer				
KPA	2.31	Normal Hours		200,00	R	R
KPA	2.32	After Hours	Hours Man	100,00	R	R
1/5 /	2.33		Hours	F0.00	D.	
КРА	2.33	Sundays & Public Holidays	Man Hours	50,00	R	R
		Waterproofing Technician / Specialist Installer				
KPA	2.34	Normal Hours	Man Hours	200,00	R	R
KPA	2.35	After Hours	Man	100,00	R	R
KPA	2.36	Sundays & Public Holidays	Hours Man	50,00	R	R
			Hours			
		Ceiling & Partitions Specialist Installer				
KPA	2.37	Normal Hours	Man Hours	200,00	R	R
KPA	2.38	After Hours		100,00	R	R
KPA	2.39	Sundays & Public Holidays	Man	50,00	R	R
			Hours]

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Flooring Specialist Installer (Vinyl & Epoxy Floors)				
KPA	2.40	Normal Hours	Man	200,00	R	R
			Hours			
KPA	2.41	After Hours		100,00	R	R
KPA	2 42	Sundays & Public Holidays	Hours Man	50,00	R	R
		Sundays a rashe nondays	Hours	30,00		
KPA	2 42	Flooring Specialist Installer (Carpets) Normal Hours	Man	200,00	R	R
KPA	2.43	Notitial nouts	Hours	200,00	K	,
KPA	2.44	After Hours		100,00	R	R
			Hours			_
KPA	2.45	Sundays & Public Holidays	Man Hours	50,00	R	R
			nours			
		Flooring Specialist Installer (Timber / Composite Floors)				
KPA	2.46	Normal Hours		200,00	R	R
KPA	2 /17	After Hours	Hours Man	100,00	R	R
KPA	2.47	After hours	Hours	100,00	K	K
KPA	2.48	Sundays & Public Holidays		50,00	R	R
			Hours			
		District.				
KPA	2 49	Plumber Normal Hours	Man	200,00	R	R
NI A	2.73	Normalificats	Hours	200,00	IX.	IX
KPA	2.50	After Hours		100,00	R	R
			Hours		_	_
KPA	2.51	Sundays & Public Holidays	Man Hours	50,00	R	R
			Hours			
						1
	<u></u>					
		CARRIED TO SITE SUMMARY				R

			CLUSTER 3 KPA				
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
	SECTION 3						
	BUILDING WORKS						
	BILL NO.1						
	ALTERATIONS						
	ALIENTIONS						
	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						
	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 acquired the				
	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.				
	notifisides as described.				
1					

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				
KPA	3.1.1	Temporary hoarding of galvanised diamond mesh covered with shade cloth 2.7m high and removal later	m	90,00	R	R
КРА	3.1.2	Extra over for galvanised mild steel double gate and frame1 511 x 2032mm high	No	2,00	R	R
КРА	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
КРА	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
КРА	3.1.5	Hoarding between concrete floor and ceiling formed of suitable timber framing with 22mm thick shutter board	m2	30,00	R	R
KPA	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
КРА	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.				
КРА	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.				
KPA	3.1.9	Concrete Columns, beams and slabs not exceeding 3m high	m3	20,00	R	R
KPA	3.1.10	Manholes, bases, strip footings etc not exceeding 1.5m deep	m3	20,00	R	R
KPA	3.1.11	Surface beds not exceeding 100mm thick	m3	20,00	R	R
KPA	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.				
КРА	3.1.13	Half brick wall	m2	90,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KPA	3.1.14	One brick wall	m2	90,00	R	R
		Taking up and removing vinyl floor coverings, tiles, carpets, etc				
КРА	3.1.15	Ceramic / Porcelain / Marble tiles to floor including preparing floor for new floor covering	m2	310,00	R	R
KPA	3.1.16	Vinyl / plastic / carpet floor covering including preparing floors for new floor coverings	m2	130,00	R	R
		Hacking up and removing off coverings to walls, columns, partitionwalls etc. including preparing surfaces for new finishes				
KPA	3.1.17	Tiles from walls, columns	m2	60,00	R	R
KPA	3.1.18	Wall paper covering from walls, columns etc.	m2	30,00	R	R
		Taking out / off and removing sundry metalwork				
КРА	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)				
KPA	3.1.20	Timber single door and steel frame not exceeding 2,5m ²	No	20,00	R	R
KPA	3.1.21	Timber double door and steel frame exceeding 2,5m² and not exceeding 5m²	No	10,00	R	R
KPA	3.1.22	Timber double door and steel frame exceeding 5m ² and not exceeding 7.5m ²	No	10,00	R	R
KPA	3.1.23	Glazed aluminium/steel/timber window not exceeding 2,5m ²	No	20,00	R	R
KPA	3.1.24	Glazed aluminium/steel/timber window exceeding 2,5m² and not exceeding 5m²	No	10,00	R	R
KPA	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				
KPA	3.1.26	Suspended ceilings, including suspension grid, hangers, cornices, etc not exceeding 3.0m high	m2	310,00	R	R
КРА	3.1.27	Drywall partitions not exceeding 3.0m high, including doors, glazed borrowed lights, etc	m	190,00	R	R
KPA	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				
KPA	3.1.29	Skirtings - various widths	m	130,00	R	R
KPA	3.1.30	Timber sills - various widths	m	30,00	R	R
KPA	3.1.31	Timber wall mounted cupboard - Measured by surface area covered on the wall	m2	30,00	R	R
KPA	3.1.32	Timber floor mounted cupboard - Measured by surface area covered on the floor	m2	30,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
КРА	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
KPA	3.1.34	Timber/stone counters	m2	30,00	R	R
		Taking out/off and removing sundry metalwork				
KPA	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				
KPA	3.1.36	Not exceeding 100mm thick Screed from floors	m2	310,00	R	R
KPA	3.1.37	Internal plaster from walls and columns not exceeding 3m high	m2	310,00	R	R
КРА	3.1.38	Internal plaster from ceilings and beams not exceding 3m high	m2	310,00	R	R
КРА	3.1.39	External plaster from walls, columns and beams not exceeding 3m high	m2	310,00	R	R
		POWER WASH ON EXISTING WALLS				
KPA	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				
КРА	3.1.41	Mesh fence with steel posts and droppers	m2	630,00	R	R
КРА	3.1.42	Steel palisade fence with steel posts and droppers	m2	630,00	R	R
KPA	3.1.43	Concrete palisade fence with concrete posts and droppers	m2	630,00	R	R
KPA	3.1.44	Security fence with 45 degree barbed wire overhang with posts and droppers	m2	630,00	R	R
KPA	3.1.45	Half brick boundary or yard wall	m2	160,00	R	R
KPA	3.1.46	One brick boundary or yard wall	m2	160,00	R	R
КРА	3.1.47	Clearvu Fence not exceeding 2,0m high with steel posts	m	160,00	R	R
		Lift and removing pre-cast concrete including bedding, etc				
KPA	3.1.48	60mm Interlocking paving	m2	580,00	R	R
KPA	3.1.49	80mm Interlocking paving	m2	580,00	R	R
KPA	3.1.50	50mm Cement or brick paving	m2	580,00	R	R
KPA	3.1.51	Fig.1 Kerbing	m	90,00	R	R
KPA	3.1.52	Fig.2 Kerbing	m	90,00	R	R
КРА	3.1.53	Fig.3 Kerbing	m	90,00	R	R
KPA	3.1.54	Fig.4 Kerbing	m	90,00	R	R
KPA	3.1.55	Fig.5 Kerbing	m	90,00	R	R

KPA 3.1. KPA 3.1.	3.1.57 3.1.58 3.1.59 3.1.60 3.1.61 3.1.62 3.1.63	Fig.6 Kerbing Fig.6 Kerbing - Mountable Fig.7 Kerbing Fig.8 Kerbing Fig.8b Kerbing - Mountable Fig.8c Kerbing - Mountable Fig.12 Kerbing Fig.14 Kerbing Fig.16 Kerbing	m m m m m m m m	90,00 90,00 90,00 90,00 90,00	R R R R	R R R R
KPA 3.1.	3.1.58 3.1.59 3.1.60 3.1.61 3.1.62 3.1.63	Fig. 7 Kerbing Fig. 8 Kerbing Fig. 8b Kerbing - Mountable Fig. 8c Kerbing - Mountable Fig. 12 Kerbing Fig. 14 Kerbing	m m m	90,00 90,00 90,00	R R	R R
KPA 3.1. KPA 3.1. KPA 3.1. KPA 3.1. KPA 3.1. KPA 3.1.	3.1.59 3.1.60 3.1.61 3.1.62 3.1.63	Fig.8 Kerbing Fig.8b Kerbing - Mountable Fig.8c Kerbing - Mountable Fig.12 Kerbing Fig.14 Kerbing	m m m	90,00	R R	R
KPA 3.1. KPA 3.1. KPA 3.1. KPA 3.1. KPA 3.1.	3.1.60 3.1.61 3.1.62 3.1.63	Fig.8b Kerbing - Mountable Fig.8c Kerbing - Mountable Fig.12 Kerbing Fig.14 Kerbing	m m	90,00	R	
KPA 3.1. KPA 3.1. KPA 3.1. KPA 3.1.	3.1.61	Fig.8c Kerbing - Mountable Fig.12 Kerbing Fig.14 Kerbing	m	90,00		R
KPA 3.1. KPA 3.1. KPA 3.1.	3.1.62	Fig.12 Kerbing Fig.14 Kerbing			R	
KPA 3.1. KPA 3.1.	3.1.63	Fig.14 Kerbing	m			R
KPA 3.1.				90,00	R	R
KPA 3.1.	3.1.64	Fig.16 Kerbing	m	90,00	R	R
			m	90,00	R	R
		PREPARATORY WORK TO EXISTING SURFACES				
KPA 3.1	3.1.65	Hacking faces of existing concrete columns, beams, etc to receive plaster	m2	30,00	R	R
	3.1.66	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				
KPA 3.1.	3.1.67	Ends of half brick walls	m	30,00	R	R
KPA 3.1.	3.1.68	Ends of one brick walls	m	30,00	R	R
KPA 3.1.	3.1.69	Faces of walls where half brick cross walls removed	m	20,00	R	R
KPA 3.1.	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				
KPA 3.1	3.1.71	Ceilings in patches	m2	20,00	R	R
KPA 3.1.	3.1.72	Ceilings where half brick walls removed	m	20,00	R	R
KPA 3.1.	3.1.73	Ceilings where one brick walls removed	m	20,00	R	R
		Making good cement screeds				
KPA 3.1.	3.1.74	Not exceeding 100mm Thick on floors in patches	m2	30,00	R	R
KPA 3.1.	3.1.75	Floors where half brick walls removed	m	20,00	R	R
KPA 3.1	3.1.76	Floors where one brick walls removed	m	20,00	R	R
		Making good internal cement plaster				
KPA 3.1.	-	Walls in patches	m2	20,00	R	R
KPA 3.1.	3.1.77		I			

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
	0.4.70				_		_	
KPA	3.1.79	Walls where half brick walls removed	m	20,00	R		R	
KPA	3.1.80	Walls where one brick walls removed	m	20,00	R		R	
KPA	3.1.81	Concrete ceilings where half brick walls removed	m	20,00	R		R	
KPA	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.						
KPA	3.1.83	Opening through half brick wall	m2	35,00	R		R	
KPA	3.1.84	Opening through one brick wall	m2	30,00	R		R	
		Materials & Plant						
	3.1.85	Provision for Sundry Materials & Plant	Prov	1,00	R	39 375,00		39 375,00
KPA	3.1.86	Allow for profit & attendance if required	%		R	39 375,00	R	
		Provisional Sum						
KPA	3.1.87	Provision for sundry Alterations Works	Sum	1,00	R	39 375,00	R	39 375,0
KPA	3.1.88	Allow for profit & attendance if required	%		R	39 375,00		
								_
		CARRIED TO SECTION SUMMARY					Р	
		CARRIED TO SECTION SUMINARY					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				
KPA 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				
KPA 3.2.2	To trenches	m3	110,00	R	R
KPA 3.2.3	To holes	m3	10,00	R	R
KPA 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		,		
KPA 3.2.5	To trenches	m3	60,00	R	R
KPA 3.2.6	To holes	m3	10,00	R	R
KPA 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				
KPA 3.2.8	EO: Soft rock	m3	9,00	R	R

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
КРА	3.2.9	EO: Hard rock	m3	9,00	R	R
		Extra over all excavations for carting away				
КРА	3.2.10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	130,00	R	R
		Risk of collapse to sides of excavation n.e 2m deep				
KPA	3.2.11	To trenches	m2	110,00	R	R
KPA	3.2.12	To holes	m2	30,00	R	R
		Risk of collapse to sides of excavation exceeding 2m but n.e 3.5m deep				
KPA	3.2.13	To trenches	m2	110,00	R	R
KPA	3.2.14	To holes	m2	40,00	R	R
		Keeping excavations free of water				
КРА	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				
KPA	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				
KPA	3.2.17	Under floors, steps, paving, foundations, manholes etc	m3	90,00	R	R
		Compaction of surfaces				
КРА	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				
KPA	3.2.19	"Modified AASHTO Density" test	No	1,00	R	R
KPA	3.2.20	"Field Density" test, including "Optimum Moisture Content" (four readings per test)	No	1,00	R	R
		SOIL POISONING				
		Soil insecticide				
KPA	3.2.21	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	130,00	R	R
КРА	3.2.22	To bottoms and sides of trenches etc	m2	130,00	R	R
		Materials & Plant				
	3.2.23	Provision for Sundry Materials & Plant	Prov	1,00	R 7 875,00	
KPA	3.2.24	Allow for profit & attendance if required	%		R 7 875,00	К

ITEN	NO NO	DESCRIPTION	UNIT	QUANTITY		RATE	AMOUNT
		Provisional Sum					
KPA	3.2.25 3.2.26	Sundry Earthworks Allow for profit & attendance if required	Sum	1,00	R	7 875,00 7 875,00	R 7 875
KPA	3.2.26	Allow for profit & attendance if required	%		R	7 875,00	R
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		CARRIED TO SECTION SUMMARY	'				R

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)				
	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				
KPA 3.3.1	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	20,00	R	R

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		20 Mpa/20mm vibrated reinforced concrete				
		20 Mpa/2011111 Vibrated reinforced concrete				
КРА	3.3.2	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	20,00	R	R
KPA	3.3.3	To columns	m3	10,00	R	R
KPA	3.3.4	To slabs	m3	10,00	R	R
KPA	3.3.5	To beams	m3	10,00	R	R
КРА	3.3.6	Walls	m3	10,00	R	R
		25 Mpa/20mm vibrated reinforced concrete				
КРА	3.3.7	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	20,00	R	R
КРА	3.3.8	To columns	m3	10,00	R	R
КРА	3.3.9	To slabs	m3	10,00	R	R
KPA	3.3.10	To beams	m3	10,00	R	R
КРА	3.3.11	Walls	m3	10,00	R	R
		30MPa/20mm vibrated reinforced concrete	5	10,00		
КРА	3.3.12	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	20,00	R	R
KPA	3.3.13	To columns	m3	10,00	R	R
КРА	3.3.14	To slabs	m3	10,00	R	R
КРА	3.3.15	To beams	m3	10,00	R	R
KPA	3.3.16	Walls	m3	10,00	R	R
		35 Mpa/20mm vibrated reinforced concrete				
КРА	3.3.17	To strip footings, surface beds, blinding, paving, platforms, steps, bases,	m3	10,00	R	R
		kerbing etc				
KPA	3.3.18	To columns	m3	5,00	R	R
КРА	3.3.19	To slabs	m3	5,00	R	R
КРА	3.3.20	To beams	m3	5,00	R	R
КРА	3.3.21	Walls	m3	5,00	R	R
		40 Mpa/20mm vibrated reinforced concrete				
I/D A	3.3.22	To strip footings, surface beds, blinding, paving, platforms, steps, bases,	pa 2	2.00	D	D
KPA	3.3.22	kerbing etc	m3	2,00	R	R
KPA	3.3.23	To columns	m3	2,00	R	R
KPA	3.3.24	To slabs	m3	2,00	R	R
	3.3.25	To beams	m3	2,00	R	R
KΡΔ		: = ===::: *	5	2,00	l · ·	+ · ·

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	TEST CUBES				
KPA 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				
KPA 3.3.28	Surface beds, slabs, beams, walls, paving etc	m2	130,00	R	R
KI A 3.3.20		1112	130,00	N .	TX
	Finishing top surfaces of concrete smooth with a steel trowel				
KPA 3.3.29	Surface beds, slabs,beams, walls, paving etc	m2	130,00	R	R
	Finishing top surfaces of concrete smooth with a power float				
KPA 3.3.30	Surface beds, slabs,beams, walls, paving etc	m2	130,00	R	R
	Scabble existing concrete surfaces, wire brush corroded rebar and apply "Prostruct 616" or similar approved wet to dry concrete adhesive				
KPA 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				
KPA 3.3.32	To falls	m2	60,00	R	R
	35MPa non-shrink grout				
KPA 3.3.33	Bedding approximately 30mm thick under 300 x 300mm base plate, including chamfered edges all round	m3	2,00	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				
KPA 3.3.34	40mm Diameter opening	No	7,00	R	R
KPA 3.3.35	50mm Diameter opening	No	6,00	R	R
KPA 3.3.36	110mm Diameter opening	No	5,00	R	R
KPA 3.3.37	200mm Diameter opening	No	4,00	R	R
KPA 3.3.38	250mm Diameter opening	No	3,00	R	R
KPA 3.3.39	350mm Diameter opening	No	2,00	R	R
KPA 3.3.40	450mm Diameter opening	No	1,00	R	R
	Rough formwork to sides				
KPA 3.3.41	Edges , risers, ends and reveals not exceeding 300 mm high	m	130,00	R	R
KPA 3.3.42	To ground beams	m2	60,00	R	R
	Smooth formwork to sides including supports etc.				
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	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KPA	3.3.44	To columns	m2	50,00	R	R
КРА	3.3.45	To pits	m2	50,00	R	R
КРА	3.3.46	To ramps	m2	50,00	R	R
КРА	3.3.47	To walls	m2	50,00	R	R
		Smooth formwork to soffits				
KPA	3.3.48	Beams propped up exceeding 3,5m and not exceeding 5m high	m2	60,00	R	R
КРА	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)				
КРА	3.3.50	Concrete humps/bunding, etc not exceeding 300mm wide	m	30,00	R	R
		ISOLATION JOINTS ETC				
		Joint sealants				
		Expansion joints with softboard between vertical concrete surfaces				
КРА	3.3.51	Silicone sealing compound in 10 - 50 mm wide joints between units	m	40,00	R	R
		including backing strips, bond breaker, primer etc				
KPA	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				
КРА	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				
КРА	3.3.54	25mm Diameter bars	ton	1,00	R	R
КРА	3.3.55	20mm Diameter bars	ton	1,00	R	R
КРА	3.3.56	16mm Diameter bars	ton	1,00	R	R
KPA	3.3.57	12mm Diameter bars	ton	1,00	R	R
КРА	3.3.58	10mm Diameter bars	ton	1,00	R	R
КРА	3.3.59	8mm Diameter bars	ton	1,00	R	R
		High tensile steel reinforcement to structural concrete work				
КРА	3.3.60	25mm Diameter bars	ton	0,50	R	R
КРА	3.3.61	20mm Diameter bars	ton	0,50	R	R
КРА	3.3.62	16mm Diameter bars	ton	0,50	R	R
КРА	3.3.63	12mm Diameter bars	ton	0,50	R	R
Į.	3.3.64	10mm Diameter bars	ton	1,00	R	R

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ITEM	I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KPA :	3.3.65	8mm Diameter bars	ton	1,00	R		R	
		Fabric reinforcement						
КРА	3.3.66	Type 100 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	50,00	R		R	
KPA :	3.3.67	Type 193 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	50,00	R		R	
КРА	3.3.68	Type 245fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	40,00	R		R	
КРА	3.3.69	Type 311 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	40,00	R		R	
КРА	3.3.70	Type 395 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	40,00	R		R	
		Materials & Plant						
KDA 1	3.3.71	Dravision for Cundry Materials 9 Plant	Drav	1.00		21 500 00	В	21 500 00
	3.3.72	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	31 500,00 31 500,00		31 500,00
		Provisional Sum						
KPA 3	3.3.73	Sundry Concrete Formwork & Reinforcement Works	Sum	1,00	R	31 500,00	R	31 500,00
	3.3.74	Allow for profit & attendance if required	%		R	31 500,00		,
		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				
		DRICKWORK				
		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				
		romung				
		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				
KPA	3.4.1	Piers	m3	5,00	R	R
KPA	3.4.2	Half brick walls	m2	100,00	R	R
КРА	3.4.3	One brick walls	m2	150,00	R	R
KPA	3.4.4	Cavity walls - Made up of Two half brick skins	m2	30,00	R	R
KPA	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
КРА	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
КРА	3.4.7	Cutting toothings and bonding new brickwork to existing	m	30,00	R	R
		Brickwork in Stock clay bricks (7 Mpa nominal strength) in class II mortar in stretcher bond				

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
〈PΑ	3.4.8	Piers	m3	5,00	R	R
KPA	3.4.9	Half brick walls	m2	299,00	R	R
〈PΑ	3.4.10	One brick walls	m2	380,00	R	R
〈PΑ	3.4.11	Cavity walls - Made up of two half brick skins	m2	180,00	R	R
ΚPA	3.4.12	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	178,00	R	R
KPA	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	180,00	R	R
(PA	3.4.14	Cutting toothings and bonding new brickwork to existing	m	130,00	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				
KPA	3.4.15	Extra over brickwork for face brickwork in foundation walls, ramp, etc	m2	50,00	R	R
KPA	3.4.16	Extra over brickwork for face brickwork	m2	90,00	R	R
KPA	3.4.17	Half brick face brick walls in class II mortar pointed on both sides	m2	80,00	R	R
KPA	3.4.18	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	10,00	R	R
КРА	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				
KPA	3.4.20	8mm Diameter mild steel bars built in horizontally	ton	1,00	R	R
		Prestressed precast lintels				
KPA	3.4.21	110 x 75mm Lintels in lengths not exceeding 3m	m	60,00	R	R
ΚΡΔ	3.4.22	110 x 75mm Lintels exceeding 3,0m but not exceeding 4,5m	m	40,00	R	R
IXI A	J. 1.22			40,00	N .	IN .
		Fabric Reinforcement				
KPA	3.4.23	75mm Galvanised brickforce suitable for half brick walls	m	380,00	R	R
KPA	3.4.24	150mm Galvanised brickforce suitable for one brick walls	m	380,00	R	R
		Galvanised hoop iron cramps, ties, etc				
KPA	3.4.25	30 x 1,6mm Roof tie 1500mm long with one end fixed to timber and other end built into brickwork	No	30,00	R	R
		Bagging of 1:3 cement and sand mixture				
ΚPA	3.4.26	On brick walls	m2	80,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		Materials & Plant						
KPA	3.4.27	Provision for Sundry Materials & Plant	Prov	1,00	R	31 500,00 31 500,00	R	31 500,00
KPA	3.4.28	Allow for profit & attendance if required	%		R	31 500,00	R	
		Provisional Sum						
	3.4.29 3.4.30	Sundry Masonry Works Allow for profit & attendance if required	Sum %	1,00	R R	31 500,00 31 500,00	R R	31 500,00
			7-					
		CARRIED TO SECTION SUM	MARY				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				
KPA 3.5.1	In walls	m2	130,00	R	R
	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
KPA 3.5.2	Under surface beds, etc	m2	380,00	R	R
	Three coats paint sealer "plascon wallseal" or equal approved without membrane				
KPA 3.5.3	On parapet walls	m2	130,00	R	R
	Two coats "Brixeal" or equal approved bitumen emulsion waterproof coating				
KPA 3.5.4	On walls	m2	130,00	R	R
NF A 3.3.4	On waiis	IIIZ	130,00	11	11
	JOINT SEALANTS ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
KPA 3.5.5	In joints between window or door frames and concrete or brickwork	m	30,00	R	R
	WATERDROOFING TO POOFS FTC				
	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				
KPA 3.5.6	On flat roofs / floors.	m2	230,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
(PA 3.5.7	On turn-ups and turn-downs exceeding 300mm girth	m2	10,00	R	R
KPA 3.5.8	On sloping roofs	m2	250,00	R	R
KPA 3.5.9	On tops and sides of inverted beams	m2	50,00	R	R
KPA 3.5.10	On bottoms and sides of floor ducts, channels, etc	m2	50,00	R	R
KPA 3.5.11	On bottoms and sides of box gutters	m2	50,00	R	R
<pa 3.5.12<="" td=""><td>On bottoms and sides of plant boxes</td><td>m2</td><td>30,00</td><td>R</td><td>R</td></pa>	On bottoms and sides of plant boxes	m2	30,00	R	R
(PA 3.5.13	Sealing edges to brickwork or concrete	m	30,00	R	R
KPA 3.5.14	Sealing edges to brickwork or concrete including trowelled mastic bead	m	30,00	R	R
KPA 3.5.15	Additional membrane 300mm girth at internal and external angles	m	30,00	R	R
KPA 3.5.16	Dressing and sealing around pipe not exceeding 200mm external diameter, including additional membrane, gussets, collars, etc	No	10,00	R	R
KPA 3.5.17	On internal surfaces of 300 x 300 x 300mm deep sump, catchpit, etc	No	10,00	R	R
KPA 3.5.18	On concrete flat roofs including all turn-ups and turndowns and sealing edges where required.	m2	130,00	R	R
	PROTECTIVE STONE DRESSING				
	19mm Crushed stone dressing evenly spread with larger stones around				
	<u>outlets</u>				
KPA 3.5.19	25mm Thick on waterproofing to flat roofs	m2	130,00	R	R
	PROTECTIVE ROOFING PAINT				
	Two coats "Silvakote" or similar approved bituminous aluminium paint				
KPA 3.5.20	On waterproofing to roofs	m2	130,00	R	R
(PA 3.5.21	On inside of existing box gutters	m2	130,00	R	R
	PROTECTIVE ROOFING SHEETING				
	Type 40 bituminous fibreglass felt laid loose				
KPA 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				
KPA 3.5.23	6 x 10mm In saw cut joints in floors	m	30,00	R	R
KPA 3.5.24	6 x 10mm In expansion joints in tiled walls etc	m	30,00	R	R
(PA 3.5.25	10 x 15mm In expansion joints in tiled floors etc	m	30,00	R	R
(PA 3.5.26	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	30,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
КРА	3.5.27	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	30,00	R		R	
		Mastic sealing compound including backing cord, bond breaker, primer, etc						
KPA	3.5.28	6 x 10mm In saw cut joints in floors	m	30,00	R		R	
KPA	3.5.29	6 x 10mm In expansion joints in tiled walls etc	m	30,00	R		R	
KPA	3.5.30	10 x 15mm In expansion joints in tiled floors etc	m	30,00	R		R	
КРА	3.5.31	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	30,00	R		R	
КРА	3.5.32	10 x 15mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	30,00	R		R	
		Materials & Plant						
	3.5.33	Provision for Sundry Materials & Plant	Prov	1,00	R	15 750,00	R	15 750,00
	3.5.34	Allow for profit & attendance if required	%	-	R	15 750,00	R	
		Provisional Sum						
KPA	3.5.35	Sundry Waterproofing Works	Sum	1,00	R	15 750,00	R	15 750,00
KPA	3.5.36	Allow for profit & attendance if required	%		R	15 750,00	R	
		CARRIED TO SECTION SUMMARY					R	
		CARRIED TO SECTION SUMINARY					n	

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				
KPA 3.6.1	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	31,00	R	R
KPA 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	28,00	R	R
	40mm Thick semi-solid flush panel doors with sapele hardwood veneer both sides suitable for varnish				
KPA 3.6.3	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	30,00	R	R
KPA 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	28,00	R	R
	44mm Thick solid door suitable for varnish or painting and hung to steel, aluminium or timber frames				
KPA 3.6.5	Provide the prime cost of R 3000.00 per door leaf & hinges for single door openings	No	40,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
КРА	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	40,00	R		R	
		"Bitcon Industries" or similar approved Class A 1 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames						
КРА	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	
КРА	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						
КРА	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	
КРА	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						
	3.6.11 3.6.12	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	31 500,00 31 500,00		31 500,00
		Provisional Sum						
	3.6.13	Sundry Carpentry & Joinery Works	Sum	1,00	R	31 500,00		31 500,00
KPA	3.6.14	Allow for profit & attendance if required	%		R	31 500,00	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 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				
KPA 3.7.1	Ceilings installed using propriety framing system all according to manufacturers specifications	m2	120,00	R	R
(PA 3.7.2	Vertical ceilings installed using propriety framing system all according to manufacturers specifications	m2	120,00	R	R
(PA 3.7.3	Horizontal bulkheads installed using propriety framing system all according to manufacturers specifications	m2	120,00	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				
KPA	3.7.4	Ceilings suspended below soffits	m2	150,00	R	R
KPA	3.7.5	Horizontal bulkheads suspended below concrete soffits	m2	130,00	R	R
KPA	3.7.6	Sloping bulkheads suspended below concrete soffits	m2	130,00	R	R
KPA	3.7.7	Extra over ceiling for opening for sprinkler head	No	30,00	R	R
KPA	3.7.8	Extra over ceiling for opening for down lighter	No	30,00	R	R
KPA	3.7.9	Extra over ceiling for 600 x 1 200mm light fitting	No	30,00	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				
KPA	3.7.10	Ceilings suspended below soffits	m2	150,00	R	R
KPA	3.7.11	Horizontal bulkheads suspended below concrete soffits	m2	130,00	R	R
KPA	3.7.12	Sloping bulkheads suspended below concrete soffits	m2	130,00	R	R
KPA	3.7.13	Extra over ceiling for opening for sprinkler head	No	30,00	R	R
KPA	3.7.14	Extra over ceiling for opening for down lighter	No	30,00	R	R
KPA	3.7.15	Extra over ceiling for 600 x 600mm light fitting	No	30,00	R	R
		Cornices to suspended ceilings				
		Provide the prime cost of R 80.00 per meter for cornices				
KPA	3.7.16	Pre-painted / coated cornices plugged	m	80,00	R	R
		Shadowline to suspended ceilings				
		Provide the prime cost of R 80.00 per meter for shadowline trim				
KPA	3.7.17	Pre-painted / coated shadowline trim fixed	m	80,00	R	R
		Insulation				
KPA	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				
ΚРΔ	3.7.19	Partitioning up to 2 600mm high with bottom and top tracks plugged	m2	182,00	R	R
	3.7.20	Partitioning up to 2 900mm high with bottom and top tracks plugged	m2	150,00	R	R
KPA	3.7.21	Partitioning up to 3 500mm high with bottom and top tracks plugged	m2	130,00	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						
КРА	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						
КРА	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						
KPA	3.7.24	Provision for Sundry Materials & Plant	Prov	1,00	R	31 500,00	R	31 500,00
	3.7.25	Allow for profit & attendance if required	%	,	R	31 500,00		,
		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	31 500,00 31 500,00		31 500,00
		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						
	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						
KPA 3.8.1	On floors	m2	230,00	R		R	
KPA 3.8.2	On treads and risers of stairs	m2	80,00	R		R	
	High traffic epoxy floor paint 2.5 to 3mm thick as per specialists specifications						
KPA 3.8.3	On floors	m?	246.00	D		D	
NFA 3.6.3	On floors	m2	246,00	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						
KPA 3.8.4	On floors	m2	240,00	R		R	
KPA 3.8.5	On treads and risers of stairs	m2	80,00	R		R	
	Materials & Plant						
KPA 3.8.6	Dravision for Cunday Materials 9, Dlayt	D	1.00	_	15 750 00	D	15 750 00
KPA 3.8.6 KPA 3.8.7	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R R	15 750,00 15 750,00		15 750,00
	Provisional Sum						
KPA 3.8.8	Sundry Floor Coverings Wall Linings etc Works	Sum	1.00	R	15 750,00	D	16 750 00
KPA 3.8.8 KPA 3.8.9	Allow for profit & attendance if required	%	1,00	R	15 750,00		15 750,00
	CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.9				
	IRONMONGERY				
	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 cardon)				
	SUPPLEMENTARY PREAMBLES				
	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-ficulting preceding the terms				
	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.				
	Finishes to ironmongery				
	Thisnes to nonmongery				
	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				
	LUCIU, LIC				
	Provide the prime cost amount of R750.00 each for cylinder locksets				
	installed complete				
KPA 3.9.1	On single doors	No	100,00	R	R
KPA 3.9.2	On double doors	No	50,00	R	R

ITEM	NO NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HINGES, BOLTS, ETC				
		<u>Hinges</u>				
КРА	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				
КРА	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>				
КРА	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				
КРА	3.9.6	Provide the prime cost amount of R2500.00 each for panic bolts for single doors installed complete	No	31,00	R	R
КРА	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				
КРА	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>				
КРА	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				
КРА	3.9.10	Provide the prime cost amount of R1000.00 each for toilet roll holder plugged to brickwork.	No	30,00	R	R
		Soap Dispenser				
КРА	3.9.11	Provide the prime cost amount of R1000.00 each for soap dispenser plugged to brickwork.	No	30,00	R	R
		Stainless Steel Grab Rail				
КРА	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	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KPA	3.9.13	Door stop (CZ8731CH) fixed with counter sunk-sunk bolt into anchor bolt	No	40,00	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	23 625,00 23 625,00	R R	23 625,00
		Provisional Sum						
	3.9.16	Sundry Floor Ironmongery Works	Sum	1,00	R	23 625,00	R	23 625,00
KPA	3.9.17	Allow for profit & attendance if required	%		R	23 625,00	R	
		CARRIED TO SECTION SUMMARY					R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
	SECTION 3						
	BUILDING WORKS						
	BILL NO.10						
	METALWORK						
	MILIALWONK						
	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						
	Based of the first ball to the						
	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						
	mare, present or metal prego at the shockaring occition						
	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						
KPA 3.10.1	Frame for door 813 x 2032mm high with three 100mm steel hinges per	No	130,00	R		R	
	leaf						
KPA 3.10.2	Frame for door 1613 x 2032mm high with three 100mm steel hinges per	No	80,00	R		R	
KI A 3.10.2	leaf	110	80,00	'`		11	
	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						
KPA 3.10.3	Frame for door 813 x 2032mm high with three 100mm steel hinges per	No	130,00	R		R	
IXI / L	leaf	110	150,00	``			
KPA 3.10.4	Frame for door 1613 x 2032mm high with three 100mm steel hinges per	No	80,00	R		R	
	leaf						
	Materials & Plant						
	INICIALIS & FIGHT						
KPA 3.10.5	Provision for Sundry Materials & Plant	Prov	1,00	R	179 125,00	R	179 125,0
KPA 3.10.6	Allow for profit & attendance if required	%		R	179 125,00		
	Dravisional Sum						
	Provisional Sum						
KPA 3.10.7	Sundry Metalworks	Sum	1,00	R	179 125,00	R	179 125,0
KPA 3.10.8	Mark up provision on sundry Metalorks	%	,	R	179 125,00		- / -
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	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				
	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 control of th				
	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				
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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				
КРА	3.11.1	25mm Thick on floors and landings	m2	310,00	R	R
КРА	3.11.2	30mm Thick on floors and landings	m2	130,00	R	R
KPA	3.11.3	30mm Thick on floors on waterproofing membrane	m2	100,00	R	R
КРА	3.11.4	Average 30mm thick on floors with upper surface to falls	m2	40,00	R	R
КРА	3.11.5	Average 30mm thick on floors with upper surface to falls and currents	m2	40,00	R	R
КРА	3.11.6	Average 40mm thick on roofs with upper surface to falls	m2	40,00	R	R
КРА	3.11.7	Average 40mm thick on roofs with upper surface to falls and currents	m2	40,00	R	R
КРА	3.11.8	25mm Thick on treads and risers of stairs including reedings	m2	40,00	R	R
КРА	3.11.9	30mm Thick on treads and risers of stairs	m2	40,00	R	R
КРА	3.11.10	30mm Thick on narrow widths not exceeding 300mm wide	m2	40,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KPA 3.11.11	Reedings in finish on ramps	m2	40,00	R	R
KPA 3.11.12	50 x 50mm Triangular fillets against walls, kerbs, etc		40,00	R	D
KPA 3.11.12		m	40,00	N.	R
	Screeds steel trowelled, on concrete				
KPA 3.11.13	25mm Thick on floors and landings	m2	380,00	R	R
KPA 3.11.14	30mm Thick on floors and landings	m2	130,00	R	R
KPA 3.11.15	30mm Thick on floors on waterproofing membrane	m2	100,00	R	R
KPA 3.11.16	Average 30mm thick on floors with upper surface to falls	m2	40,00	R	R
		1112	40,00	N.	N.
KPA 3.11.17	Average 30mm thick on floors with upper surface to falls and currents	m2	40,00	R	R
KPA 3.11.18	Average 40mm thick on roofs with upper surface to falls	m2	40.00	R	D
		m2	40,00	K	R
KPA 3.11.19	Average 40mm thick on roofs with upper surface to falls and currents	m2	40,00	R	R
KPA 3.11.20	25mm Thick on treads and risers of stairs including reedings	m2	40,00	R	R
KPA 3.11.21	30mm Thick on treads and risers of stairs	m2	40,00	R	R
KPA 3.11.22	30mm Thick on narrow widths not exceeding 300mm wide	m2	40,00	R	R
KPA 3.11.23	Reedings in finish on ramps	m2	40,00	R	R
			•		
KPA 3.11.24	50 x 50mm Triangular fillets against walls, kerbs, etc	m2	40,00	R	R
	GRANOLITHIC				
	Untinted granolithic on concrete				
KPA 3.11.25	25mm Thick on floors and landings	m2	250,00	R	R
KPA 3.11.26	30mm Thick on floors and landings	m2	130,00	R	R
		1112			
KPA 3.11.27	50mm Thick on floors and landings	m2	100,00	R	R
KPA 3.11.28	Average 30mm thick on floors with upper surface to falls	m2	40,00	R	R
KPA 3.11.29	Average 30mm thick on floors with upper surface to falls and currents	m2	40,00	R	R
KPA 3.11.30	Average 40mm thick on roofs with upper surface to falls	m2	40,00	R	R
KPA 3.11.31	Average 40mm thick on roofs with upper surface to falls and currents	m2	40,00	R	R
KPA 3.11.32	25mm Thick on treads and risers of stairs including reedings	m2	40,00	R	R
KPA 3.11.33	30mm Thick on treads and risers of stairs	m2	40,00	R	R
			·		
KPA 3.11.34	30mm Thick on narrow widths not exceeding 300mm wide	m2	40,00	R	R
KPA 3.11.35	Reedings in finish on ramps	m2	40,00	R	R
KPA 3.11.36	Skirtings 100mm high	m	40,00	R	R
KPA 3.11.37	Skirtings 100mm high stepped over treads and risers	m	40,00	R	R
	EXTERNAL PLASTER				
		1			

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		Class I cement plaster on brickwork						
	2 4 4 2 2				_			
КРА	3.11.38	On walls	m2	580,00	R		R	
		Class I cement plaster on concrete						
KPA	3.11.39	On walls / columns	m2	250,00	R		R	
KPA	3.11.40	On soffits / beams	m2	250,00	R		R	
		INTERNAL PLASTER						
		Class I cement plaster on brickwork						
ΚDΛ	3.11.41	On walls	m2	E90.00	D		R	
KPA	5.11.41	On waiis	m2	580,00	R		ĸ	
		Class I cement plaster on concrete						
KPA	3.11.42	On walls/ columns	m2	250,00	R		R	
KPA	3.11.43	On soffits / beams	m2	250,00	R		R	
		Rhinolite skim plaster 20mm thick with smooth trowel finish						
KPA	3.11.44	On partition walls	m2	250,00	R		R	
KPA	3.11.45	On plaster board ceilings	m2	250,00	R		R	
KPA	3.11.46	On bulkheads	m2	250,00	R		R	
		CORNER PROTECTORS, DIVIDING STRIPS, ETC						
KPA	3.11.47	3 x 25mm Flat section galvanised mild steel dividing strip set on edge in screed between different floor finishes	m	150,00	R		R	
КРА	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						
KPA	3.11.49	Provision for Sundry Materials & Plant	Prov	1,00	R	15 750,00	R	15 750,00
KPA	3.11.50	Allow for profit & attendance if required	%		R	15 750,00		
		Provisional Sum						
KPA	3.11.51	Sundry Plasterworks	Sum	1,00	R	15 750,00	R	15 750,00
	3.11.52	Allow for profit & attendance if required	%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	R	15 750,00		

ITEN	1 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				
		SOFFLEWENTART FREAWIDLES				
		Fixing				
		Descriptions of tiling on heid account of the control of the contr				
		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:				
KPA	3.12.1	On walls	m2	210,00	R	R
KPA	3.12.2	On narrow widths	m2	80,00	R	R
				,		
		Provide the prime cost amount of R 500.00 per m2 for porcelain wall tiles fixed with adhesive to:				
KPA	3.12.3	On walls	m2	250,00	R	R
.,	2.12.6	O		60.00		
KPA	3.12.4	On narrow widths	m2	80,00	R	R
		FLOOR TILING				
		Provide the prime cost amount of R 500.00 per m2 for ceramic floor tiles fixed with adhesive to:				
КРА	3.12.5	On floors	m2	380,00	R	R
KPA	3.12.6	On narrow widths	m2	80,00	R	R
КРА	3.12.7	On floors landings in patterns	m2	130,00	R	R
		Provide the prime cost amount of R 500.00 per m2 for porcelain floor tiles fixed with adhesive to:				
KPA	3.12.8	On floors	m2	380,00	R	R
					_	
KPA	3.12.9	On narrow widths	m2	80,00	R	R
KPA	3.12.10	On floors landings in patterns	m2	130,00	R	R

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SUNDRIES				
		Aluminium dividing strips				
		Provide the prime cost amount of R 75.00 per m for dividing strips:				
КРА	3.12.11	Flat section dividing strips between tiles	m	50,00	R	R
KPA	3.12.12	L-section dividing strips between tiles	m	50,00	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:				_
КРА	3.12.13	Corner protectors	m	30,00	R	R
КРА	3.12.14	Stair nosings	m	30,00	R	R
КРА	3.12.15	Single expansion joint strips with vinyl rubber inlay	m	30,00	R	R
KPA	3.12.16	Double expansion joint strips with vinyl rubber inlay	m	30,00	R	R
				-		
	3.12.17	Materials & Plant Provision for Sundry Materials & Plant	Prov	1,00	R 39 375,00	
KPA	3.12.18	Allow for profit & attendance if required	%		R 39 375,00	I R
		Provisional Sum				
KPA	3.12.19	Sundry Tiling Works	Sum	1,00	R 39 375,00	R 39 375,00
KPA	3.12.20	Mark up provision on sundry Tiling Works	%		R 39 375,00	R
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		CARRIED TO SECTION SUPPLY				D.
		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'				

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 pipes and flexible connecting pipes shall be deemed to include for joints to college exaustion, bedding, buddilling, compaction and disposal of surplus material on site Descriptions of service pipes and flexible connecting pipes 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 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 profromed 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 no provide worktop and praying a	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. 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 openings are sufficiently accurate to provide proper engagement for these clips			accordance with each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers				
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)							
Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting linto 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 out ends Descriptions of pipes laid in and including trenches and of inspection chambers, catchijks, etc shall be deemed to include excreation, 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 emilpoyer's representative for reproducing onto the originals for handing over to the employer SANTARY 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 provide worktops using clips provided. The contractor is to provide worktops 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)			Pipes shall be bedded in accordance with SABS 1200LB : Bedding (Pipes)				
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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:				
KPA 3.13.1	Single bowl wash trough. Unit to be fixed to the wall with a pair of Stainless Steel wallfixing brackets.	No	5,00	R	R
	Provide the prime cost amount of R 3200.00 each for wash troughs:				
KPA 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:				
KPA 3.13.3	Stainless steel single end bowl sink and drainer set in top of timber / stone counter top (Elsewhere measured).	No	5,00	R	R
	Provide the prime cost amount of R 3200.00 each for wash troughs:				
KPA 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				
KPA 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"				
KPA 3.13.6	Provide the prime cost amount of R 2200.00 each for wall mounted paraplegic basin	No	5,00	R	R
	<u>Urinals</u>				
KPA 3.13.7	Provide the prime cost amount of R 5000.00 each for wall mounted urinals	No	5,00	R	R
	Toilets etc				
KPA 3.13.8	Provide the prime cost amount of R 4000.00 each for toilets installed complete	No	10,00	R	R
KPA 3.13.9	Provide the prime cost amount of R 5000.00 each for paraplegic toilets installed complete		5,00	R	R
	WASTE UNIONS ETC				
	"Cobra Watertech" or equal approved				
KPA 3.13.10	40mm Wash trough waste	No	40,00	R	R
	TRAPS ETC				
	PVC				
KPA 3.13.11	Rubber waste reseal "P" 32x40mm (basin)	No	40,00	R	R
	TAPS, VALVES, ETC				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Taps, showers etc				
КРА	3.13.12	Provide the prime cost amount of R 2000.00 each for taps and sink mixers	No	10,00	R	R
КРА	3.13.13	Provide the prime cost amount of R 1500.00 each for shower heads	No	10,00	R	R
КРА	3.13.14	Provide the prime cost amount of R 2000.00 each for shower mixers	No	10,00	R	R
КРА	3.13.15	22mm Brass Non-return valve	No	10,00	R	R
		SANITARY PLUMBING				
		uPVC soil and vent pipes				
KPA	3.13.16	40mm Diameter Pipes	m	60,00	R	R
	3.13.17	50mm Diameter Pipes	m	60,00	R	R
KPA	3.13.18	75mm Diameter Pipes	m	60,00	R	R
КРА	3.13.19	110mm Diameter Pipes	m	60,00	R	R
		Extra over uPVC soil and vent pipes for fittings				
КРА	3.13.20	40mm Bend	No	20,00	R	R
KPA	3.13.21	40mm Inspection bend	No	20,00	R	R
КРА	3.13.22	40mm Junction	No	20,00	R	R
KPA	3.13.23	50mm BSP adaptor	No	20,00	R	R
КРА	3.13.24	50mm Bend	No	20,00	R	R
КРА	3.13.25	50mm Inspection bend	No	20,00	R	R
KPA	3.13.26	50mm Junction	No	20,00	R	R
КРА	3.13.27	50mm Access bend	No	20,00	R	R
KPA	3.13.28	50mm vent valve	No	20,00	R	R
КРА	3.13.29	50mm Two way vent valve	No	20,00	R	R
КРА	3.13.30	50mm Inspection junction	No	20,00	R	R
КРА	3.13.31	75mm Bend	No	20,00	R	R
КРА	3.13.32	75mm Inspection bend	No	20,00	R	R
KPA	3.13.33	75mm Junction	No	20,00	R	R
КРА	3.13.34	75mm Inspection junction	No	20,00	R	R
КРА	3.13.35	75mm Reducing junction	No	20,00	R	R
КРА	3.13.36	75mm Inspection reducing junction	No	20,00	R	R
KPA	3.13.37	75mm Reducer	No	20,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KPA	3.13.38	110mm Bend	No	20,00	R	R
КРА	3.13.39	110mm Inspection bend	No	20,00	R	R
KPA	3.13.40	110mm Junction	No	20,00	R	R
KPA	3.13.41	110mm Inspection junction	No	20,00	R	R
КРА	3.13.42	110mm Reducing junction	No	20,00	R	R
KPA	3.13.43	110mm Inspection reducing junction	No	20,00	R	R
KPA	3.13.44	110mm Reducer	No	20,00	R	R
КРА	3.13.45	110mm Pan connector	No	20,00	R	R
KPA	3.13.46	110mm Two way vent valve	No	20,00	R	R
		Testing				
KPA	3.13.47	Testing waste pipe system	Item	1,00	R	R
		WATER SUPPLIES				
		Class 0 copper pipes with brass compression couplings				
КРА	3.13.48	15mm Pipes	m	60,00	R	R
КРА	3.13.49	15mm Pipes chased into brickwork or concrete	m	60,00	R	R
KPA	3.13.50	22mm Pipes	m	60,00	R	R
KPA	3.13.51	22mm Pipes chased into brickwork or concrete	m	60,00	R	R
KPA	3.13.52	28mm Pipes	m	60,00	R	R
КРА	3.13.53	28mm Pipes chased into brickwork or concrete	m	60,00	R	R
KPA	3.13.54	35mm Pipes	m	60,00	R	R
KPA	3.13.55	35mm Pipes chased into brickwork or concrete	m	60,00	R	R
KPA	3.13.56	42mm Pipes	m	60,00	R	R
KPA	3.13.57	54mm Pipes	m	60,00	R	R
КРА	3.13.58	67mm Pipes	m	60,00	R	R
КРА	3.13.59	76mm Pipes	m	60,00	R	R
КРА	3.13.60	108mm Pipes	m	60,00	R	R
		Extra over Class 0 copper pipes for capillary fittings				
КРА	3.13.61	15mm Fittings	No	20,00	R	R
КРА	3.13.62	22mm Fittings	No	20,00	R	R
КРА	3.13.63	28mm Fittings	No	20,00	R	R
KPA	3.13.64	35mm Fittings	No	20,00	R	R
КРА	3.13.65	42mm Fittings	No	20,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KPA	3.13.66	54mm Fittings	No	20,00	R	R
KPA	3.13.67	67mm Fittings	No	20,00	R	R
KPA	3.13.68	76mm Fittings	No	20,00	R	R
KPA	3.13.69	108mm Fittings	No	20,00	R	R
		Extra over Class 0 copper pipes for brass compression fittings				
KPA	3.13.70	15mm Fittings	No	20,00	R	R
KPA	3.13.71	22mm Fittings	No	20,00	R	R
KPA	3.13.72	28mm Fittings	No	20,00	R	R
KPA	3.13.73	35mm Fittings	No	20,00	R	R
KPA	3.13.74	42mm Fittings	No	20,00	R	R
			Nia		D.	D.
KPA	3.13.75	54mm Fittings	No	20,00	R	R
KPA	3.13.76	67mm Fittings	No	20,00	R	R
KPA	3.13.77	76mm Fittings	No	20,00	R	R
KPA	3.13.78	108mm Fittings	No	20,00	R	R
		Class 12.5 "HDPE" Pipes				
КРА	3.13.79	20mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	60,00	R	R
КРА	3.13.80	32mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	60,00	R	R
КРА	3.13.81	40mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	60,00	R	R
КРА	3.13.82	50mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	60,00	R	R
КРА	3.13.83	75mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	60,00	R	R
КРА	3.13.84	90mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	60,00	R	R
КРА	3.13.85	110mm Diameter pipe laid in trenches not exceeding 1m deep including excavation, bedding, backfilling, compaction and disposal of surplus material	m	60,00	R	R
		Extra over "HDPE" for fittings				
		LAGE OFF TOTAL TOTAL TITLE IN THE INTERIOR INTERIO				

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
КРА	3.13.87	20mm Diameter Reducing Coupling	No	20,00	R	R
KPA	3.13.88	20mm Diameter Equal Tee	No	20,00	R	R
КРА	3.13.89	20mm Diameter Male Adaptor	No	20,00	R	R
KPA	3.13.90	20mm Diameter 90 Degree Elbow	No	20,00	R	R
КРА	3.13.91	40mm Diameter Straight Coupling	No	20,00	R	R
KPA	3.13.92	40mm Diameter Reducing Coupling	No	20,00	R	R
КРА	3.13.93	40mm Diameter Equal Tee	No	20,00	R	R
КРА	3.13.94	40mm Diameter Male Adaptor	No	20,00	R	R
КРА	3.13.95	40mm Diameter 90 Degree Elbow	No	20,00	R	R
KPA	3.13.96	50mm Diameter Straight Coupling	No	20,00	R	R
КРА	3.13.97	50mm Diameter Reducing Coupling	No	20,00	R	R
КРА	3.13.98	50mm Diameter Equal Tee	No	20,00	R	R
КРА	3.13.99	50mm Diameter Male Adaptor	No	20,00	R	R
КРА	3.13.100	50mm Diameter 90 Degree Elbow	No	20,00	R	R
КРА	3.13.101	75mm Diameter Straight Coupling	No	20,00	R	R
KPA	3.13.102	75mm Diameter Reducing Coupling	No	20,00	R	R
KPA	3.13.103	75mm Diameter Equal Tee	No	20,00	R	R
КРА	3.13.104	75mm Diameter Male Adaptor	No	20,00	R	R
KPA	3.13.105	75mm Diameter 90 Degree Elbow	No	20,00	R	R
КРА	3.13.106	90mm Diameter Straight Coupling	No	20,00	R	R
KPA	3.13.107	90mm Diameter Reducing Coupling	No	20,00	R	R
KPA	3.13.108	90mm Diameter Equal Tee	No	20,00	R	R
КРА	3.13.109	90mm Diameter Male Adaptor	No	20,00	R	R
КРА	3.13.110	90mm Diameter 90 Degree Elbow	No	20,00	R	R
КРА	3.13.111	110mm Diameter Straight Coupling	No	20,00	R	R
КРА	3.13.112	110mm Diameter Reducing Coupling	No	20,00	R	R
КРА	3.13.113	110mm Diameter Equal Tee	No	20,00	R	R
КРА	3.13.114	110mm Diameter Male Adaptor	No	20,00	R	R
KPA	3.13.115	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.				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
КРА	3.13.116	Provide the prime cost amount of R 3000.00 each for undercounter geysers	No	9,00	R	R
КРА	3.13.117	Provide the prime cost amount of R 7000.00 each for 100 litre geysers	No	8,00	R	R
KPA	3.13.118	Provide the prime cost amount of R 9000.00 each for 150 litre geysers	No	8,00	R	R
КРА	3.13.119	Provide the prime cost amount of R 11000.00 each for 200 litre geysers	No	8,00	R	R
		Testing				
ΚΡΔ	3 13 120	Testing supply water pipe system	Item	1,00	R	R
KFA	5.15.120		iccili	1,00	11	
		HOLES ETC				
		Core drilling of hole for pipe not exceeding 50mm diameter				
KPA	3.13.121	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	10,00	R	R
		Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter				
KPA	3.13.122	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	10,00	R	R
		Materials & Plant				
ΚΡΔ	3 13 123	Provision for Sundry Materials & Plant	Prov	1,00	R 47 250,00	R 47 250,00
		Allow for profit & attendance if required	%	1,00	R 47 250,00	
		Bussisianal Com				
		Provisional Sum				
KPA	3.13.125	Sundry Plumbing Works	Sum	1,00	R 47 250,00	R 47 250,00
KPA	3.13.126	Allow for profit & attendance if required	%		R 47 250,00	R
		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	NO 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)				
KPA	3.14.1	On internal walls	m2	650,00	R	R
KPA	3.14.2	On external walls	m2	650,00	R	R
KPA	3.14.3	On ceilings and beams	m2	650,00	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)				
KPA	3.14.4	On partitions	m2	380,00	R	R
КРА	3.14.5	On ceilings and cornices	m2	380,00	R	R
КРА	3.14.6	On fascias and barge boards	m2	130,00	R	R
		Apply one coat Professional Alkali resistant plaster primer and three coats Paint (Professional Superior Matt Paint)				
КРА	3.14.7	On Rhinolite walls	m2	380,00	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)				
КРА	3.14.8	On doors	m2	130,00	R	R
KPA	3.14.9	On door frames	m2	130,00	R	R
KPA	3.14.10	On windows	m2	130,00	R	R
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)				
KPA	3.14.11	On palisade fencing	m2	250,00	R	R
KPA	3.14.12	On steel barriers	m2	130,00	R	R
	3 14 13	On balustrades	m2	130,00	R	R
KPA	3.14.13					

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)				
KPA	3.14.15	On boarded panelling	m2	130,00	R	R
KPA	3.14.16	On boarded ceilings	m2	130,00	R	R
KPA	3.14.17	On doors	m2	130,00	R	R
KPA	3.14.18	On door frames	m2	130,00	R	R
KPA	3.14.19	On skirtings	m	130,00	R	R
		Prime bare areas with "Wood Primer" and apply two coats "Timber Varnish" (High gloss wood varnish)				
KPA	3.14.20	On boarded panelling	m2	130,00	R	R
KPA	3.14.21	On boarded ceilings	m2	130,00	R	R
KPA	3.14.22	On doors	m2	130,00	R	R
KPA	3.14.23	On door frames	m2	130,00	R	R
КРА	3.14.24	On skirtings	m	130,00	R	R
		STEEL ROOFS				
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)				
KPA	3.14.25	On metal roof sheets	m2	630,00	R	R
KPA	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)				
KPA	3.14.27	On internal walls	m2	500,00	R	R
KPA	3.14.28	On external walls	m2	500,00	R	R
КРА	3.14.29	On ceilings and beams	m2	380,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Matt Paint)				
КРА	3.14.30	On partitions	m2	380,00	R	R
KPA	3.14.31	On ceilings and cornices	m2	380,00	R	R
KPA	3.14.32	On fascias and barge boards	m2	130,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
KPA	3.14.33	On Rhinolite walls	m2	250,00	R	R

ITEN	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)						
KPA	3.14.34	Windows and door frames	m2	130,00	R		R	
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)						
KPA	3.14.35	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat ares)	m2	130,00	R		R	
		PAINT ON WOOD						
		Prepare and apply two full coats plascon alkyd enamel paint						
KPA	3.14.36	On general surfaces	m2	130,00	R		R	
		Prepare and apply two full coats plascon alkyd enamel paint						
KPA :	3.14.37	On boarded panelling	m2	130,00	R		R	
KPA	3.14.38	On boarded ceilings	m2	130,00	R		R	
КРА	3.14.39	On doors	m2	130,00	R		R	
KPA :	3.14.40	On door frames	m2	130,00	R		R	
KPA	3.14.41	On skirtings	m	130,00	R		R	
		Prepare and apply two coats "Timber Varnish" (High gloss wood varnish)						
KPA	3.14.42	On boarded panelling	m2	130,00	R		R	
КРА	3.14.43	On boarded ceilings	m2	130,00	R		R	
КРА	3.14.44	On doors	m2	130,00	R		R	
KPA :	3.14.45	On door frames	m2	130,00	R		R	
KPA	3.14.46	On skirtings	m	130,00	R		R	
		STEEL ROOFS						
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)						
KPA	3.14.47	On metal roof sheets	m2	665,00	R		R	
KPA	3.14.48	To cladding sheets	m2	130,00	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	39 375,00 39 375,00		39 375,00
		Provisional Sum						
KPA	3.14.51	Sundry Paint Works	Sum	1,00	R	39 375,00	R	39 375,00
	3.14.52	Allow for profit & attendance if required	%	, .	R	39 375,00		-,

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

SECTION 3 SUMMARY - BUILDING WORKS	PAGE NO.	AMOUNT
Alterations	93	R
Earthworks	96	R
Concrete, Formwork & Reinforcement	101	R
Masonry	104	R
Waterproofing	107	R
Carpentry & Joinery	109	R
Ceilings, Partitions & Access Flooring	112	R
Floor Coverings, Wall Linings etc	113	R
Ironmongery	116	R
Metalwork	118	R
Plastering	122	R
Tiling	124	R
Plumbing & Drainage	133	R
Paintwork	138	R
CARRIED TO SITE S	SUMMARY	R
	Alterations Earthworks Concrete, Formwork & Reinforcement Masonry Waterproofing Carpentry & Joinery Ceilings, Partitions & Access Flooring Floor Coverings, Wall Linings etc Ironmongery Metalwork Plastering Tiling Plumbing & Drainage Paintwork	Alterations 93 Earthworks 96 Concrete, Formwork & Reinforcement 101 Masonry 104 Waterproofing 107 Carpentry & Joinery 109 Ceilings, Partitions & Access Flooring 112 Floor Coverings, Wall Linings etc 113 Ironmongery 116 Metalwork 118 Plastering 122 Tiling 124 Plumbing & Drainage 133

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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				
KPA 4.1.1	Trim and level terraced area and compact to set levels.	m2	380,00	R	R
	Digging up topsoil				
KPA 4.1.2	Digging up topsoil to an average depth of 150mm and preserving for use as filling	m3	80,00	R	R
	BULK EXCAVATION, FILLING ETC				
KPA 4.1.3	Open face excavation in earth over sloping site	m3	50,00	R	R
	Excavation				
KPA 4.1.4	Excavate in earth not exceeding 1000mm deep	m3	30,00	R	R
	Keeping excavations free of water				
KPA 4.1.5	Keeping excavations free of water	Item	1,00	R	R
	Extra over all excavations for carting away				
KPA 4.1.6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	57,00	R	R
	LAYER WORK				
	Earth filling obtained from the excavations and/or prescribed stock piles on site				
KPA 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				
KPA 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	130,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KPA	4.1.9	G8 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	10,00	R	R
KPA	4.1.10	G7 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	10,00	R	R
KPA	4.1.11	G7 Gravel-soil material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R
KPA	4.1.12	Extra over for G7 stabilised with Portland cement compacted to 95% Mod AASHTO density	m3	10,00	R	R
KPA	4.1.13	Subbase course of G6 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R
KPA	4.1.14	G5 Natural gravel material compacted in 150mm layers to 93% Mod AASHTO density	m3	10,00	R	R
KPA	4.1.15	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	10,00	R	R
KPA	4.1.16	Base course of G4 natural gravel material in 150mm layers compacted to 98% Mod AASHTO density	m3	10,00	R	R
KPA -	4.1.17	G2 base compacted to 100% Mod AASHTO density	m3	10,00	R	R
		Compaction of surfaces				
KPA 4	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	380,00	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				
KPA -	4.1.19	Under roads, paving etc.	m2	380,00	R	R
		TESTS				
KPA	4.1.20	Prescribed tests to determine degree of compaction or similar approved properties of ground or filling				
KPA -	4.1.21	"Modified AASHTO Density" test	No	1,00	R	R
KPA	4.1.22	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	1,00	R	R
KPA	4.1.23	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	1,00	R	R
KPA	4.1.24	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	1,00	R	R
KPA	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				
KPA 4.1.26	Paving to roadwork and parking to falls	m2	380,00	R	R
KPA 4.1.27	Extra over for curved edges	m	130,00	R	R
	Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing				
	KERBS ETC				
KPA 4.1.28	Fig.1 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 4.1.29	Fig.2 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 4.1.30	Fig.3 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 4.1.31	Fig.4 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 4.1.32	Fig.5 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 4.1.33	Fig.6 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 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
KPA 4.1.35	Fig.7 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 4.1.36	Fig.8 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 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
KPA 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
KPA 4.1.39	Fig.12 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 4.1.40	Fig.14 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KPA 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				
KPA 4.1.42	100mm Wide line	m	30,00	R	R

ITEM N	10	DESCRIPTION	UNIT	QUANTITY		RATE	4	AMOUNT
KPA 4.1	1 42	150mm Wide line	m	30,00	R		R	
KPA 4.1	1.43	150mm wide line	m	30,00	ĸ		K	
KPA 4.1	1.44	300mm Wide line	m	10,00	R		R	
KPA 4.1	1.45	Standard type directional arrow not exceeding 1m2	No	1,00	R		R	
KPA 4.1	1.46	2500 x 2000mm Wide "traffic arrow" road marking paint	No	1,00	R		R	
KPA 4.1	1.47	5400 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
KPA 4.1	1.48	6000 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
KPA 4.1	1.49	Standard directional arrow signs not exceeding 2m2	No	1,00	R		R	
		Materials & Plant						
			_				_	
KPA 4.1		Provision for Sundry Materials & Plant	Prov	1,00	R	15 750,00	R	15 750,00
KPA 4.1	1.51	Allow for profit & attendance if required	%		R	15 750,00	R	
		Provisional Sum						
KPA 4.1	1 52	Sundry Road Works	Sum	1,00	R	15 750,00	R	15 750,00
KPA 4.1		Allow for profit & attendance if required	%	1,00	R	15 750,00		13 730,00
		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				
KPA 4.2.1	110mm Diameter pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	80,00	R	R
	Extra over for uPVC fittings				
KPA 4.2.2	110mm Bend	No	20,00	R	R
KPA 4.2.3	110mm Junction	No	20,00	R	R
KPA 4.2.4	110mm Access junction	No	20,00	R	R
KPA 4.2.5	110mm Rodding Eye	No	20,00	R	R
	uPVC pipe Class 34 HD				
KPA 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	76,00	R	R
	Extra over for uPVC fittings				
KPA 4.2.7	160mm Bend	No	20,00	R	R
KPA 4.2.8	160mm Junction	No	20,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KPA	4.2.9	160mm Access junction	No	20,00	R	R
КРА	4.2.10	160mm Rodding Eye	No	20,00	R	R
KPA	4.2.11	Catch pits and junction boxes	No	20,00	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:				
КРА	4.2.12	Over 0m and up to 1.0m	No	4,00	R	R
KPA	4.2.13	Over 1.0m and up to 2.0m	No	3,00	R	R
				·		
KPA	4.2.14	Over 2m and up to 3m	No	3,00	R	R
KPA	4.2.15	Over 3m and up to 4m	No	3,00	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:				
1/0.4	12.16			4.00	_	
KPA	4.2.16	Over 0m and up to 1.0m	No	1,00	R	R
KPA	4.2.17	Over 1.0m and up to 2.0m	No	1,00	R	R
KPA	4.2.18	Over 2m and up to 3m	No	1,00	R	R
KPA	4.2.19	Over 3m and up to 4m	No	1,00	R	R
		Testing Drainage System				
		Testing Dramage System				
KPA	4.2.20	Testing soil drainage pipe system	Item	1,00	R	R
		Materials & Plant				
KPA	4.2.21	Provision for Sundry Materials & Plant	Prov	1,00	R 7 875,00	R 7 875,00
	4.2.22	Allow for profit & attendance if required	%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	R 7 875,00	
		Provisional Sum				
KDA	4 2 22	S. d. D. J. W. d.	6	1.00	D 7.075.00	7 075 00
	4.2.23 4.2.24	Sundry Drainage Works Allow for profit & attendance if required	Sum %	1,00	R 7 875,00 R 7 875,00	
		CARRIED TO SECTION SUPPLY OF				B
		CARRIED TO SECTION SUMMARY				R

					AMOUNT
1	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:				
KPA 4.3.		No	3,00	R	R
			2.00		
KPA 4.3.	2 Over 1.0m and up to 2.0m	No	3,00	R	R
KPA 4.3.	Over 2m and up to 3m	No	3,00	R	R
KPA 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:				
KPA 4.3.	5 Over 0m and up to 1.0m	No	1,00	R	R
KPA 4.3.	5 Over 1.0m and up to 2.0m	No	1,00	R	R
M A 4.3.	, Ott. Lom and up to 2.011	110	1,00	11	11
KPA 4.3.	7 Over 2m and up to 3m	No	1,00	R	R
KPA 4.3.	3 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				
КРА	4.3.9	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	30,00	R	R
KPA	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				
KPA	4.3.11	110mm Bend	No	10,00	R	R
KPA	4.3.12	110mm Junction	No	10,00	R	R
KPA	4.3.13	110mm Access bend	No	10,00	R	R
KPA	4.3.14	110mm Access junction	No	10,00	R	R
KPA	4.3.15	110mm Rodding eye	No	10,00	R	R
KPA	4.3.16	Class 34 uPVC pipes 160mm Pipes laid in and including trenches(trench to be opened and banked at 1;3 grade allowing pipe to be exposed)	m	42,00	R	R
		Extra over items for uPVC fittings				
KPA	4.3.17	160 x 110 mm Diameter Y junction	No	10,00	R	R
KPA	4.3.18	160 x 160 mm Diameter Y junction	No	10,00	R	R
		Channel bends				
KPA	4.3.19	160mm Diameter 45 degree bend	No	10,00	R	R
KPA	4.3.20	160mm Diameter 90 degree bend Sockets	No	10,00	R	R
KPA	4.3.21	160mm Diameter	No	10,00	R	R
		End caps				
KPA	4.3.22	160mm Diameter	No	10,00	R	R
		SUNDRIES				
KPA	4.3.23	Excavation in earth for pipe trenches, chambers, etc	m3	10,00	R	R
KPA	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
KPA	4.3.25	Risk of collapse to sides of trenches	m2	40,00	R	R
KPA	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
KPA	4.3.27	25Mpa unreinforced concrete encasing to horizontal pipes laid in trenches N.E 1m deep	m3	10,00	R	R
		WATER				

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KPA	4.3.28	Keeping excavations free of water	Item	1,00	R		R	
		uPVC gulleys						
КРА	4.3.29	110mm Gulley not exceeding 750mm deep including trap, head, grating etc	No	10,00	R		R	
		Testing						
KPA	4.3.30	Testing drainage system	Item	1,00	R		R	
		Materials & Plant						
КРД	4.3.31	Provision for Sundry Materials & Plant	Prov	1,00	R	7 875,00	R	7 875,00
KPA	4.3.32	Allow for profit & attendance if required	%	1,00	R	7 875,00	R	7 07 3,00
		Provisional Sum						
КРА	4.3.33	Sundry Sewer Reticulation Works	Sum	1,00	R	7 875,00	R	7 875,00
	4.3.34	Allow for profit & attendance if required	%	2,00	R	7 875,00		. 0.0,00
		CARRIED TO SECTION SUMMARY	,				R	
		CANNIED TO SECTION SUIVINARY					1,	

	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 3 KPA			}		
ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT	
	PROVISIONAL SUMS							
	THO VISIONAL SONIS							
	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							
KPA 5.1	Provide the sum of R136,000.00 for Lateral Support, Ground Anchoring, Piling & Underpinning, Etc by an approved sub-contractor	Sum	1,00	R	136 000,00	R	136 000	
KPA 5.2	Allow for profit & attendance if required	%		R	136 000,00	R		
	ROOF COVERINGS, CLADDINGS ETC							
KPA 5.3	Provide the sum of R821,000.00 for Roof Coverings, Claddings Etc by an approved sub-contractor	Sum	1,00	R	821 000,00	R	821 000	
KPA 5.4	Allow for profit & attendance if required	%		R	821 000,00	R		
	STRUCTURAL STEELWORK							
KPA 5.5	Provide the sum of R821,000.00 for Structural Steelwork by an approved sub-contractor	Sum	1,00	R	821 000,00	R	821 000	
KPA 5.6	Allow for profit & attendance if required	%		R	821 000,00	R		
	JOINERY & CABINETRY INSTALLATION							
KPA 5.7	Provide the sum of R136,000.00 for the joinery & cabinetry installation by an approved sub-contractor	Sum	1,00	R	136 000,00	R	136 000	
KPA 5.8	Allow for profit & attendance if required	%		R	136 000,00	R		

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ROLLER SHUTTERS & HANGAR DOORS						
KPA	5.9	Provide the sum of R273,000.00 for Roller Shutters & Hangar Doors by an approved sub-contractor	Sum	1,00	R	273 000,00	R	273 000,0
KPA	5.10	Allow for profit & attendance if required	%		R	273 000,00	R	
		GENERAL GLAZING						
КРА	5.11	Provide the sum of R136,000.00 for General Glazing by an approved sub- contractor	Sum	1,00	R	136 000,00	R	136 000,0
KPA	5.12	Allow for profit & attendance if required	%		R	136 000,00	R	
		ALUMINIUM FACADE CLADDING, SHOPFRONTS, WINDOWS AND DOORS						
KPA	5.13	Provide the sum of R273,000.00 for aluminium façade cladding, shopfronts, window and door installation by an approved sub-contractor	Sum	1,00	R	273 000,00	R	273 000,0
KPA	5.14	Allow for profit & attendance if required	%		R	273 000,00	R	
		SIGNAGE						
КРА	5.15	Provide the sum of R136,000.00 for corporate and directional signage by an approved subcontractor	Sum	1,00	R	136 000,00	R	136 000,
KPA	5.16	Allow for profit & attendance if required	%		R	136 000,00	R	
		BLINDS, FURNITURE & FITTINGS						
KPA	5.17	Provide the sum of R205,000.00 for blinds, furniture and fittings by an approved subcontractor	Sum	1,00	R	205 000,00	R	205 000,0
KPA	5.18	Allow for profit & attendance if required	%		R	205 000,00	R	
		TENANT TEMPORARY RELOCATION & REINSTATEMENT						
KPA	5.19	Provide the sum of R 136,000.00 for tenant temporary relocation and reinstatement works by an approved subcontractor	Sum	1,00	R	136 000,00	R	136 000,0
KPA	5.20	Allow for profit & attendance if required	%		R	136 000,00	R	
		ASBESTOS REMOVAL						
KPA	5.21	Provide the sum of R136,000.00 for the Removal & Safe Disposal of Asbestos by an approved subcontractor	Sum	1,00	R	136 000,00	R	136 000,0
KPA	5.22	Allow for profit & attendance if required	%		R	136 000,00	R	
		GUTTERS & RAINWATER DISPOSAL SYSTEMS						
KPA	5.23	Provide the sum of R273,000.00 for Gutters & Rainwater Disposal Systems by an approved subcontractor	Sum	1,00	R	273 000,00	R	273 000,
KPA	5.24	Allow for profit & attendance if required	%		R	273 000,00	R	

ITEM NO	0	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
	EI	LECTRICAL, ELECTRONIC AND MECHANICAL INSTALLATIONS						
	G	ENERAL ELECTRICAL INSTALLATIONS						
KPA 5.25		rovide the sum of R821,000.0 for General Electical Installations by an pproved subcontractor	Prov	1,00	R	821 000,00	R	821 000,0
KPA 5.26	6 Al	llow for profit & attendance if required	%		R	821 000,00	R	
	SI	UB - STATION INSTALLATIONS						
KPA 5.27		rovide the sum of R136,000.00 for Sub Station Installations by an pproved subcontractor	Sum	1,00	R	136 000,00	R	136 000,0
KPA 5.28	.8 Al	llow for profit & attendance if required	%		R	136 000,00	R	
	U	PS INSTALLATIONS						
KPA 5.29		rovide the sum of R136,000.00 for UPS Installations by an approved ubcontractor	Sum	1,00	R	136 000,00	R	136 000,0
KPA 5.30	0 Al	llow for profit & attendance if required	%		R	136 000,00	R	
	G	ENERATOR INSTALLATION						
KPA 5.32		rovide the sum of R136,000.00 for the Generator Installation by an pproved sub-contractor	Sum	1,00	R	136 000,00	R	136 000,
KPA 5.32	2 Al	llow for profit & attendance if required	%		R	136 000,00	R	
	FI	IRE DETECTION & FIRE STOPPING INSTALLATION						
KPA 5.33		rovide the sum of R205,000.00 for the Fire Detection & Fire Stopping installation by an approved sub-contractor	Sum	1,00	R	205 000,00	R	205 000,0
KPA 5.34	4 Al	llow for profit & attendance if required	%		R	205 000,00	R	
	A	CCESS CONTROL						
KPA 5.35		rovide the sum of R67,000.00 for the Access Control System installation y an approved sub-contractor	Sum	1,00	R	67 000,00	R	67 000,0
KPA 5.36	6 Al	llow for profit & attendance if required	%		R	67 000,00	R	
	C	CTV INSTALLATION						
KPA 5.37		rovide the sum of R67,000.00 for CCTV installation by an approved sub- ontractor	Sum	1,00	R	67 000,00	R	67 000,0
KPA 5.38	8 Al	llow for profit & attendance if required	%		R	67 000,00	R	
	IN	NTERNET AND TELECOMMUNICATION INSTALLATION						
KPA 5.39		rovide the sum of R136,000.00 for the internet and elecommunication installation by an approved subcontractor	Sum	1,00	R	136 000,00	R	136 000,
KPA 5.40	.0 Al	llow for profit & attendance if required	%		R	136 000,00	R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
	GENERAL MECHANICAL INSTALLATION						
KPA 5.41	Provide the sum of R821,000.00 for General Mechanical Installations by an approved subcontractor	Prov	1,00	R	821 000,00	R	821 000,00
KPA 5.42	Allow for profit & attendance if required	%		R	821 000,00	R	
	FIRE PROTECTION INSTALLATIONS						
KPA 5.43	Provide the sum of R136,000.00 for Fire Protection Installations by an approved subcontractor	Sum	1,00	R	136 000,00	R	136 000,00
KPA 5.44	Allow for profit & attendance if required	%		R	136 000,00	R	
	SPRINKLER INSTALLATIONS						
KPA 5.45	Provide the sum of R273,000.00 for Sprinkler Installations by an approved subcontractor	Sum	1,00	R	273 000,00	R	273 000,00
KPA 5.46	Allow for profit & attendance if required	%		R	273 000,00	R	
	GAS SUPPRESSION INSTALLATIONS						
KPA 5.47	Provide the sum of R273,000.00 for Gas Suppression Installations by an approved subcontractor	Sum	1,00	R	273 000,00	R	273 000,00
KPA 5.48	Allow for profit & attendance if required	%		R	273 000,00	R	
	SMOKE EXTRACTION INSTALLATIONS						
KPA 5.49	Provide the sum of R273,000.00 for Smoke Extraction Installations by an approved subcontractor	Sum	1,00	R	273 000,00	R	273 000,00
KPA 5.50	Allow for profit & attendance if required	%		R	273 000,00	R	
	HVAC INSTALLATION						
KPA 5.51	Provide the sum of R821,000.00 for the HVAC installation by an approved sub-contractor	Sum	1,00	R	821 000,00	R	821 000,00
KPA 5.52	Allow for profit & attendance if required	%		R	821 000,00	R	
	LANDSCAPING WORKS						
KPA 5.53	Provide the sum of R273,000.00 for Landscaping Works by an approved sub-contractor	Sum	1,00	R	273 000,00	R	273 000,00
KPA 5.54	Allow for profit & attendance if required	%		R	273 000,00	R	
	SPECIALIST WORKS						
KPA 5.55	Provide the sum of R136,000.00 for Specialist Works by an approved sub-contractor	Prov	1,00	R	136 000,00	R	136 000,00
KPA 5.56	Allow for profit & attendance if required	%		R	136 000,00	R	
	CARRIED TO SITE SUMMARY					R	

				CLUSTER	. 3
				KPA	
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN'
	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 should recipt in and according to an experience of contractors.				
	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				
KPA 6.1	General building / building rubble waste to landfill	ton	80,00	R	R
	RECYCLING / REPURPOSING RETURN				
(PA 6.2	Glass	Kg	250,00	(-R	(-R
(PA 6.3	Plastics	Kg	250,00	(-R	(-R
KPA 6.4	Steel	Kg	250,00	(-R	(-R
KPA 6.5	Stainless Steel	Kg	250,00	(-R	(-R
(PA 6.6	Copper	Kg	250,00	(-R	(-R
KPA 6.7	Aluminium	Kg	250,00	(-R	(-R
(PA 6.8	Brass	Kg	250,00	(-R	(-R
				-	
KPA 6.9	Iron	Kg	250,00	(-R	(-R

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HAZARDOUS WASTE				
		Provisional Sum				
KPA	6.10	Hazardous Waste Classification & Disposal Costs	Sum	1,00	R 172 917,00 R 172 917,00	R 172 917,00
KPA	6.11	Allow for profit & attendance if required	%		R 172 917,00	R
	·					
		CARRIED TO SITE SUMMARY				R

	SITE SUMMARY - KPA	DACE NO.	AMOUNT
	SITE SUMMARY - RPA	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

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KING SHAKA INTERNATIONAL AIRPORT - KSIA

			CLUSTER 3 KSIA				
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						
	Descriptional amounts included and acceptant and the second and the second acceptant acceptant acceptant and the second acceptant accept						
	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						
	55 , 1 10 10 11 11 11 11 11 11 11 11 11 11 1						
	FIXED CHARGE ITEMS						
KSI 1.1	General Insurance Requirement (Sureties, guarantees, bonds, workman's	Sum	1,00	R	R		
	compensation etc)		_,=0				
KSI 1.2	Contract works insurance	Sum	1,00	R	R		
K31 1.2							

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE	,	AMOUNT
KSI 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						
KSI 1.5	Offices (Accommodates up to 5 staff x 1 off)	month	8,00	R		R	
KSI 1.6	Storage sheds (12m x 2.4m x 1 off - Includes Delivery & Removal)	month	8,00	R		R	
KSI 1.7	Ablution & Latrine facilities (5 x Male & 3 x Urinal & 3 x Female & 1 x Paraplegic & 2 x Standalone Units)	month	8,00	R		R	
KSI 1.8	Electric Power & Lighting	month	8,00	R		R	
KSI 1.9	Water supplies, electric power and communications	month	8,00	R		R	
	<u>Supervision</u>						
	Supervisor/Foreman						
KSI 1.10	Site Supervision for the duration of the contract (x 1 Resource)	month	8,00	R		R	
	Safety Management						
KSI 1.11	Provision of full time Construction Site Safety Officer (x 1 Resource)	month	8,00	R		R	
KSI 1.12	Compliance with the Occupational Health and Safety Act (OHSA) and Regulations (including the Construction Regulations, 2014)	month	8,00	R		R	
KSI 1.13	Site Security	month	8,00	R		R	
KSI 1.14		month	8.00	D		D	
K3I 1.14	Signage for the site	month	8,00	R		R	
KSI 1.15	Other time related obligations	month	8,00	R		R	
	VALUE RELATED ITEMS						
KSI 1.16	Contractual requirements	Sum	1,00	R		R	
KSI 1.17	Provision for Specialised PPE Requirements	Prov	1,00	R	19 017,98	D	19 017,9
KSI 1.17	Allow for profit & attendance if required	%	1,00	R	19 017,98		19 017,90
KSI 1.19	Provision for Location and Protection of Existing Underground Services	Prov	1,00	R	11 410,79	R	11 410,79
KSI 1.20	Allow for profit & attendance if required	%	_,	R	11 410,79	R	
KSI 1.21	Provision for Compliance with Environmental requirements	Prov	1,00	R	11 410,79	R	11 410,79
KSI 1.22	Allow for profit & attendance if required	%	_,	R	11 410,79		11 710,7
KSI 1.23	Provision for ACSA Training and Airports Permits (ACSA Issue)	Prov	1,00	R	38 035,96	R	38 035,9
KSI 1.24	Allow for profit & attendance if required	%		R	38 035,96	R	
	Materials & Plant						
KSI 1.25	Provision for Sundry Materials & Plant	Prov	1,00	R	24 000,00	D	24 000,0
KSI 1.26	Allow for profit & attendance if required	%	1,00	R	24 000,00		2 4 000,0
	Provisional Sum						
VCI 1 27		Dro	1.00	D	24 000 00	D	24.000.0
KSI 1.27 KSI 1.28	Sundry preliminary requirements Allow for profit & attendance if required	Prov %	1,00	R R	24 000,00 24 000,00		24 000,00

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

				CLUSTER 3 KSIA				
ITEM	I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
		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						
		Normal nours: Regarded as between 00:00am 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)						
KSI 2	2.1	Normal Hours	Man	40,00	R	R		
1461		46 11	Hours	20.00				
KSI	2.2	After Hours	Man Hours	20,00	R	R		
KSI 2	2.3	Sundays & Public Holidays		10,00	R	R		
		, ,	Hours	,				
1461		Additional Supervisor / Foreman (Civil Works)		40.00				
KSI	2.4	Normal Hours	Man Hours	40,00	R	R		
KSI 2	2.5	After Hours		20,00	R	R		
			Hours	,				
KSI 2	2.6	Sundays & Public Holidays		10,00	R	R		
			Hours					
		Handyman						
KSI 2	2.7	Normal Hours	Man	40,00	R	R		
			Hours					
KSI 2	2.8	After Hours		20,00	R	R		
VCI *	2.0	6 . J 6 6 LP. U.P.	Hours	10.00	D	l D		
KSI	2.9	Sundays & Public Holidays	Man Hours	10,00	R	R		
		Brick Layer						
KSI 2	2.10	Normal Hours	Man	40,00	R	R		
KSI 2	7 11	After Hours	Hours Man	20,00	R	R		
KJI 4	C.11	After Hours	Hours	20,00	, N	l N		
KSI 2	2.12	Sundays & Public Holidays		10,00	R	R		
		,	Hours					
		Commenter						
KSI 2	2 12	Carpenter Normal Hours	Man	40,00	R	R		
KJI A	۲.13	Northal Hours	Hours	40,00	'\	``		
KSI 2	2.14	After Hours		20,00	R	R		
			Hours					
KSI 2	2.15	Sundays & Public Holidays		10,00	R	R		
1			Hours		1	1		

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Tiler				
KSI	2.16	Normal Hours	Man	40,00	R	R
			Hours			
KSI	2.17	After Hours	Man Hours	20,00	R	R
KSI	2.18	Sundays & Public Holidays	Man	10,00	R	R
			Hours			R
		Plasterer				R
KSI	2.19	Normal Hours	Man	40,00	R	R
NCI	2.20	After Hours	Hours Man	20,00	R	R
KSI	2.20	After hours	Hours	20,00	K	K
KSI	2.21	Sundays & Public Holidays	Man	10,00	R	R
			Hours			
		Painter				
KSI	2.22	Normal Hours	Man	40,00	R	R
KZI	2.23	After Hours	Hours Man	20,00	R	R
KJI	2.23	Aiter flours	Hours	20,00	IN.	K
KSI	2.24	Sundays & Public Holidays	Man	10,00	R	R
			Hours			
		Welder				
KSI	2.25	Normal Hours	Man	40,00	R	R
KSI	2.26	After Hours	Hours Man	20,00	R	R
N.S.I	2.20	Auter Hours	Hours	20,00	IV.	, and the second
KSI	2.27	Sundays & Public Holidays	Man	10,00	R	R
			Hours			
		General Assistant				
KSI	2.28	Normal Hours	Man	550,00	R	R
KSI	2.29	After Hours	Hours Man	30,00	R	R
			Hours			
KSI	2.30	Sundays & Public Holidays	Man	20,00	R	R
			Hours			
		Shutterhand / Formwork Specialist Installer				
KSI	2.31	Normal Hours	Man	40,00	R	R
KSI	2.32	After Hours	Hours Man	20,00	R	R
			Hours			
KSI	2.33	Sundays & Public Holidays	Man Hours	10,00	R	R
			110013			
		Waterproofing Technician / Specialist Installer			_	
KSI	2.34	Normal Hours	Man Hours	40,00	R	R
KSI	2.35	After Hours	Man	20,00	R	R
	2.5.5		Hours	40.0-		
KSI	2.36	Sundays & Public Holidays	Man Hours	10,00	R	R
			110013			
	2.5-	Ceiling & Partitions Specialist Installer				
KSI	2.37	Normal Hours	Man Hours	40,00	R	R
KSI	2.38	After Hours	Man	20,00	R	R
		Sundays & Public Holidays	Hours			1_
KSI		C O D	Man	10,00	R	R

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Flooring Specialist Installer (Vinyl & Epoxy Floors)				
KSI	2.40	Normal Hours		40,00	R	R
KSI	2.41	After Hours	Hours Man	20,00	R	R
			Hours			
KSI	2.42	Sundays & Public Holidays	Man Hours	10,00	R	R
			Hours			
KCI	2.42	Flooring Specialist Installer (Carpets)	Man	40.00	D	D
KSI	2.43	Normal Hours	Man Hours	40,00	R	R
KSI	2.44	After Hours	Man	20,00	R	R
KSI	2.45	Sundays & Public Holidays	Hours Man	10,00	R	R
I(SI	2.43	Sundays & Lashe Hondays	Hours	10,00	I.	K
		Flooring Consistint testallar / Timber / Companies Floors				
KSI	2.46	Flooring Specialist Installer (Timber / Composite Floors) Normal Hours	Man	40,00	R	R
			Hours			
KSI	2.47	After Hours	Man Hours	20,00	R	R
KSI	2.48	Sundays & Public Holidays		10,00	R	R
			Hours			
		Plumber				
KSI	2.49	Normal Hours	Man	40,00	R	R
KCI	2.50	After House	Hours	20.00		
KSI	2.50	After Hours	Man Hours	20,00	R	R
KSI	2.51	Sundays & Public Holidays	Man	10,00	R	R
			Hours			
		CARRIED TO SITE SUMMARY				R

			CLUSTER 3 KSIA				
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	/ 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				
KSI	3.1.1	Temporary hoarding of galvanised diamond mesh covered with shade cloth 2.7m high and removal later	m	20,00	R	R
KSI	3.1.2	Extra over for galvanised mild steel double gate and frame1 511 x 2032mm high	No	2,00	R	R
KSI	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	30,00	R	R
KSI	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
KSI	3.1.5	Hoarding between concrete floor and ceiling formed of suitable timber framing with 22mm thick shutter board	m2	10,00	R	R
KSI	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
KSI	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.				
KSI	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.				
KSI	3.1.9	Concrete Columns, beams and slabs not exceeding 3m high	m3	10,00	R	R
KSI	3.1.10	Manholes, bases, strip footings etc not exceeding 1.5m deep	m3	10,00	R	R
KSI	3.1.11	Surface beds not exceeding 100mm thick	m3	10,00	R	R
KSI	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.				
KSI	3.1.13	Half brick wall	m2	30,00	R	R
	3.1.14	One brick wall	m2	30,00	R	R

ITEN	NO N	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Taking up and removing vinyl floor coverings, tiles, carpets, etc				
KSI	3.1.15	Ceramic / Porcelain / Marble tiles to floor including preparing floor for new floor covering	m2	70,00	R	R
KSI	3.1.16	Vinyl / plastic / carpet floor covering including preparing floors for new floor coverings	m2	30,00	R	R
		Hacking up and removing off coverings to walls, columns, partitionwalls etc. including preparing surfaces for new finishes				
KSI	3.1.17	Tiles from walls, columns	m2	20,00	R	R
				,		
KSI	3.1.18	Wall paper covering from walls, columns etc.	m2	10,00	R	R
		Taking out / off and removing sundry metalwork				
KSI	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	30,00	R	R
		Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)				
KSI	3.1.20	Timber single door and steel frame not exceeding 2,5m ²	No	10,00	R	R
KSI	3.1.21	Timber double door and steel frame exceeding 2,5m² and not exceeding 5m²	No	5,00	R	R
KSI	3.1.22	Timber double door and steel frame exceeding 5m ² and not exceeding 7.5m ²	No	3,00	R	R
KSI	3.1.23	Glazed aluminium/steel/timber window not exceeding 2,5m ²	No	10,00	R	R
KSI	3.1.24	Glazed aluminium/steel/timber window exceeding 2,5m² and not exceeding 5m²	No	5,00	R	R
KSI	3.1.25	Glazed aluminium/steel/timber window exceeding 5m² and not exceeding 7.5m²	No	3,00	R	R
		Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
KSI	3.1.26	Suspended ceilings, including suspension grid, hangers, cornices, etc not exceeding 3.0m high	m2	80,00	R	R
KSI	3.1.27	Drywall partitions not exceeding 3.0m high, including doors, glazed borrowed lights, etc	m	60,00	R	R
KSI	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				
KSI	3.1.29	Skirtings - various widths	m	40,00	R	R
KSI	3.1.30	Timber sills - various widths	m	10,00	R	R
	3.1.31	Timber wall mounted cupboard - Measured by surface area covered on the wall	m2	10,00	R	R
KSI	3.1.32	Timber floor mounted cupboard - Measured by surface area covered on	m2	10,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI 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
KSI 3.1.34	Timber/stone counters	m2	10,00	R	R
	Taking out/off and removing sundry metalwork				
KSI 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				
KSI 3.1.36	Not exceeding 100mm thick Screed from floors	m2	100,00	R	R
KSI 3.1.37	Internal plaster from walls and columns not exceeding 3m high	m2	100,00	R	R
KSI 3.1.38	Internal plaster from ceilings and beams not exceding 3m high	m2	100,00	R	R
KSI 3.1.39	External plaster from walls, columns and beams not exceeding 3m high	m2	100,00	R	R
	POWER WASH ON EXISTING WALLS				
KSI 3.1.40	Power wash on existing walls (Internal and external walls) as per Employer Agent instruction	m2	100,00	R	R
	Taking down and removing				
KSI 3.1.41	Mesh fence with steel posts and droppers	m2	150,00	R	R
KSI 3.1.42	Steel palisade fence with steel posts and droppers	m2	150,00	R	R
KSI 3.1.43	Concrete palisade fence with concrete posts and droppers	m2	150,00	R	R
KSI 3.1.44	Security fence with 45 degree barbed wire overhang with posts and droppers	m2	150,00	R	R
KSI 3.1.45	Half brick boundary or yard wall	m2	50,00	R	R
KSI 3.1.46	One brick boundary or yard wall	m2	50,00	R	R
KSI 3.1.47	Clearvu Fence not exceeding 2,0m high with steel posts	m	50,00	R	R
	Lift and removing pre-cast concrete including bedding, etc				
KSI 3.1.48	60mm Interlocking paving	m2	150,00	R	R
KSI 3.1.49	80mm Interlocking paving	m2	150,00	R	R
KSI 3.1.50	50mm Cement or brick paving	m2	150,00	R	R
KSI 3.1.51	Fig.1 Kerbing	m	30,00	R	R
KSI 3.1.52	Fig.2 Kerbing	m	30,00	R	R
KSI 3.1.53	Fig.3 Kerbing	m	30,00	R	R
KSI 3.1.54	Fig.4 Kerbing	m	30,00	R	R
1 -		1		1	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI	3.1.56	Fig.6 Kerbing	m	30,00	R	R
KSI	3.1.57	Fig.6 Kerbing - Mountable	m	30,00	R	R
KSI	3.1.58	Fig.7 Kerbing	m	30,00	R	R
KSI	3.1.59	Fig. 8 Kerbing	m	30,00	R	R
KSI	3.1.60	Fig.8b Kerbing - Mountable	m	30,00	R	R
KSI	3.1.61	Fig.8c Kerbing - Mountable	m	30,00	R	R
KSI	3.1.62	Fig.12 Kerbing	m	30,00	R	R
KSI	3.1.63	Fig.14 Kerbing	m	30,00	R	R
KSI	3.1.64	Fig.16 Kerbing	m	30,00	R	R
		PREPARATORY WORK TO EXISTING SURFACES				
KSI	3.1.65	Hacking faces of existing concrete columns, beams, etc to receive plaster	m2	10,00	R	R
KSI	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				
KSI	3.1.67	Ends of half brick walls	m	10,00	R	R
KSI	3.1.68	Ends of one brick walls	m	10,00	R	R
KSI	3.1.69	Faces of walls where half brick cross walls removed	m	10,00	R	R
KSI	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				
KSI	3.1.71	Ceilings in patches	m2	10,00	R	R
KSI	3.1.72	Ceilings where half brick walls removed	m	10,00	R	R
KSI	3.1.73	Ceilings where one brick walls removed	m	10,00	R	R
		Making good cement screeds				
KSI	3.1.74	Not exceeding 100mm Thick on floors in patches	m2	10,00	R	R
KSI	3.1.75	Floors where half brick walls removed	m	10,00	R	R
KSI	3.1.76	Floors where one brick walls removed	m	10,00	R	R
		Making good internal cement plaster				
KSI	3.1.77	Walls in patches	m2	10,00	R	R
KSI	3.1.78	Concrete ceilings in patches	m2	10,00	R	R
KSI	3.1.79	Walls where half brick walls removed	m	10,00	R	R

ITEN	NO N	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KSI	3.1.80	Walls where one brick walls removed	m	10,00	R		R	
KSI	3.1.81	Concrete ceilings where half brick walls removed	m	10,00	R		R	
KSI	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.						
KSI	3.1.83	Opening through half brick wall	m2	9,00	R		R	
KSI	3.1.84	Opening through one brick wall	m2	10,00	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	12 000,00 12 000,00		12 000,0
		Provisional Sum						
	3.1.87 3.1.88	Provision for sundry Alterations Works Allow for profit & attendance if required	Sum %	1,00	R R	12 000,00 12 000,00		12 000,
		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				
	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				
KSI 3.2.1	Stripping average 300mm thick layer of top soil and stockpile on site	m2	150,00	R	R
	EXCAVATION, RISK OF COLLAPSE, FILLING, ETC				
	Excavation in earth not exceeding 2m deep including carting to a stockpile				
KSI 3.2.2	To trenches	m2	30,00	R	R
		m3			
KSI 3.2.3	To holes	m3	5,00	R	R
KSI 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				
KSI 3.2.5	To trenches	m3	15,00	R	R
KSI 3.2.6	To holes	m3	5,00	R	R
			·		
KSI 3.2.7	Reduced levels under floors	m3	5,00	R	R
	EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER				
	Extra over trench and hole excavations in earth for excavation in				
KSI 3.2.8	EO: Soft rock	m3	5,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI 3.2.9	EO: Hard rock	m3	5,00	R	R
K31 3.2.3		1113	3,00	IX.	T .
	Extra over all excavations for carting away				
KSI 3.2.10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	20,00	R	R
	Risk of collapse to sides of excavation n.e 2m deep				
KSI 3.2.11	To trenches	m2	30,00	R	R
KSI 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		,		
KSI 3.2.13	To trenches	m2	30,00	R	R
KSI 3.2.14	To holes	m2	10,00	R	R
1.01 0.2.2		2	10,00		
KSI 3.2.15	Keeping excavations free of water 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				
KSI 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				
KSI 3.2.17	Under floors, steps, paving, foundations, manholes etc	m3	30,00	R	R
	Compaction of surfaces				
KSI 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	80,00	R	R
	Prescribed density tests on filling				
KSI 3.2.19	"Modified AASHTO Density" test	No	1,00	R	R
KSI 3.2.20	"Field Density" test, including "Optimum Moisture Content" (four readings per test)	No	1,00	R	R
	SOIL POISONING				
	Soil insecticide				
KSI 3.2.21	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	40,00	R	R
KSI 3.2.22	To bottoms and sides of trenches etc	m2	40,00	R	R
	Materials & Plant				
KSI 3.2.23	Provision for Sundry Materials & Plant	Prov	1,00	R 2 400,00	R 2 400
KSI 3.2.24	Allow for profit & attendance if required	%	1,00	R 2 400,00	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Provisional Sum				
KSI	3.2.25 3.2.26	Sundry Earthworks Allow for profit & attendance if required	Sum	1,00	R 2 400,00	R 2 400,00
KSI	3.2.26	Allow for profit & attendance if required	%		R 2 400,00 R 2 400,00	R
		CARRIED TO SECTION SUMMARY				R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.3				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	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 RESAMBLES				
	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				
KSI 3.3.1	To strip footings, surface beds, blinding, paving, platforms, steps, bases, kerbing etc	m3	6,00	R	R

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

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		TEST CUBES				
KSI	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 and an add and a state of the stat				
		Finishing top surfaces of concrete smooth with a wood float				
KSI	3.3.28	Surface beds, slabs,beams, walls, paving etc	m2	30,00	R	R
		Finishing top surfaces of concrete smooth with a steel trowel				
KSI	3.3.29	Surface beds, slabs, beams, walls, paving etc	m2	30,00	R	R
		Finishing top surfaces of concrete smooth with a power float				
VC:	2.2.20			20.00	D	
KSI	3.3.30	Surface beds, slabs,beams, walls, paving etc	m2	30,00	R	R
		Scabble existing concrete surfaces, wire brush corroded rebar and apply "Prostruct 616" or similar approved wet to dry concrete adhesive				
KSI	3.3.31	Side of existing concrete	m2	10,00	R	R
		Finishing top surfaces of concrete with and including a nonslip brushed concrete finish including wave-like lines parallel				
					_	_
KSI	3.3.32	To falls	m2	10,00	R	R
		35MPa non-shrink grout				
KSI	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				
KSI	3.3.34	40mm Diameter opening	No	1,00	R	R
KSI	3.3.35	50mm Diameter opening	No	1,00	R	R
				,		
KSI	3.3.36	110mm Diameter opening	No	1,00	R	R
KSI	3.3.37	200mm Diameter opening	No	1,00	R	R
KSI	3.3.38	250mm Diameter opening	No	1,00	R	R
KSI	3.3.39	350mm Diameter opening	No	1,00	R	R
KSI	3.3.40	450mm Diameter opening	No	1,00	R	R
		Rough formwork to sides				
KSI	3.3.41	Edges , risers, ends and reveals not exceeding 300 mm high	m	20,00	R	R
KSI	3.3.42	To ground beams	m2	10,00	R	R
		Smooth formwork to sides including supports etc.				
KSI	3.3.43	To beams	m2	10,00	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
νςι	3.3.44	To columns	m2	10,00	R	R
		TO COLUMNIS	1112	10,00	N	N.
KSI	3.3.45	To pits	m2	10,00	R	R
KSI	3.3.46	To ramps	m2	10,00	R	R
KSI	3.3.47	To walls	m2	10,00	R	R
		Smooth formwork to soffits				
KSI	3.3.48	Beams propped up exceeding 3,5m and not exceeding 5m high	m2	15,00	R	R
KSI	3.3.49	Slab propped up exceeding 3,5m and not exceeding 5m high	m2	25,00	R	R
		Formwork to sloping top surfaces (pitch exceeding 35 degrees)				
KSI	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				
		expansion joints with sortboard between vertical concrete surfaces				
KSI	3.3.51	Silicone sealing compound in 10 - 50 mm wide joints between units including backing strips, bond breaker, primer etc	m	10,00	R	R
KSI	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				
KSI	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	10,00	R	R
		REINFORCEMENT (PROVISIONAL)				
		Mild tensile steel reinforcement to structural concrete work				
KSI	3.3.54	25mm Diameter bars	ton	0,25	R	R
KSI	3.3.55	20mm Diameter bars	ton	0,25	R	R
KSI	3.3.56	16mm Diameter bars	ton	0,25	R	R
KSI	3.3.57	12mm Diameter bars	ton	0,25	R	R
KSI	3.3.58	10mm Diameter bars	ton	0,25	R	R
KSI	3.3.59	8mm Diameter bars	ton	0,25	R	R
		High tensile steel reinforcement to structural concrete work				
KSI	3.3.60	25mm Diameter bars	ton	0,25	R	R
	3.3.61	20mm Diameter bars	ton	0,25	R	R
	3.3.62	16mm Diameter bars	ton	0,25	R	R
KSI	3.3.63	12mm Diameter bars	ton	0,25	R	R
				,		
KSI	3.3.64	10mm Diameter bars	ton	0,25	R	R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI	3.3.65	8mm Diameter bars	ton	0,25	R	R
		Fabric reinforcement				
KSI	3.3.66	Type 100 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	10,00	R	R
KSI	3.3.67	Type 193 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	25,00	R	R
KSI	3.3.68	Type 245fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	10,00	R	R
KSI	3.3.69	Type 311 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	10,00	R	R
KSI	3.3.70	Type 395 fabric reinforcement in concrete surface beds, concrete slabs, walls, pre-bent cages etc	m2	10,00	R	R
		Materials & Plant				
	3.3.71 3.3.72	Provision for Sundry Materials & Plant	Prov	1,00	R 9 600,00	
KSI	3.3.72	Allow for profit & attendance if required	%		R 9 600,00	К
		Provisional Sum				
	3.3.73 3.3.74	Sundry Concrete Formwork & Reinforcement Works Allow for profit & attendance if required	Sum %	1,00	R 9 600,00 R 9 600,00	
		CARRIED TO SECTION SUMMARY				R

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
		BUILDING WORKS				
		BILL NO.4				
		MASONRY				
		DOTAMBLES.				
		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				
		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				
		romang				
		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				
KSI	3.4.1	Piers	m3	3,00	R	R
KSI	3.4.2	Half brick walls	m2	40,00	R	R
KSI	3.4.3	One brick walls	m2	60,00	R	R
KSI	3.4.4	Cavity walls - Made up of Two half brick skins	m2	10,00	R	R
KSI	3.4.5	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	10,00	R	R
KSI	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	10,00	R	R
KSI	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				

ITEN	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI	3.4.8	Piers	m3	3,00	R	R
KSI	3.4.9	Half brick walls	m2	100,00	R	R
KSI	3.4.10	One brick walls	m2	133,00	R	R
KSI	3.4.11	Cavity walls - Made up of two half brick skins	m2	30,00	R	R
KSI	3.4.12	280mm Hollow walls of two half brick skins with cavities filled in with and including 30MPa/20mm concrete	m2	30,00	R	R
KSI	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	30,00	R	R
KSI	3.4.14	Cutting toothings and bonding new brickwork to existing	m	40,00	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				
KSI	3.4.15	Extra over brickwork for face brickwork in foundation walls, ramp, etc	m2	20,00	R	R
KSI	3.4.16	Extra over brickwork for face brickwork	m2	30,00	R	R
KSI	3.4.17	Half brick face brick walls in class II mortar pointed on both sides	m2	20,00	R	R
KSI	3.4.18	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	5,00	R	R
KSI	3.4.19	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm external diameter	No	5,00	R	R
		Steel bar reinforcement				
KSI	3.4.20	8mm Diameter mild steel bars built in horizontally	ton	1,00	R	R
		Prestressed precast lintels				
KCI	3.4.21			20.00	D.	D.
		110 x 75mm Lintels in lengths not exceeding 3m	m	20,00	R	R
KSI	3.4.22	110 x 75mm Lintels exceeding 3,0m but not exceeding 4,5m	m	10,00	R	R
		Fabric Reinforcement				
KSI	3.4.23	75mm Galvanised brickforce suitable for half brick walls	m	110,00	R	R
KSI	3.4.24	150mm Galvanised brickforce suitable for one brick walls	m	110,00	R	R
		Galvanised hoop iron cramps, ties, etc				
KSI	3.4.25	$30 \times 1,6$ mm 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				
KSI	3.4.26	On brick walls	m2	20,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
	Materials & Plant						
KSI 3.4.27	Provision for Sundry Materials & Plant	Prov	1,00	R	9 600,00	D	9 600,00
KSI 3.4.28	Allow for profit & attendance if required	%	1,00	R	9 600,00	R	9 000,00
	Provisional Sum						
KSI 3.4.29	Sundry Masonry Works	Sum	1,00	R	9 600,00	R	9 600,00
KSI 3.4.30	Allow for profit & attendance if required	%	1,00	R	9 600,00	R	9 000,00
	CARRIED TO SECTION SUMMA					R	

ITEM 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				
KSI 3.5.1	In walls	m2	40,00	R	R
	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
KSI 3.5.2	Under surface beds, etc	m2	110,00	R	R
	Three coats paint sealer "plascon wallseal" or equal approved without membrane				
KSI 3.5.3	On parapet walls	m2	40,00	R	R
	Two coats "Brixeal" or equal approved bitumen emulsion waterproof coating				
KSI 3.5.4	On walls	m2	40,00	R	R
K3I 3.3.4		1112	40,00	IX.	IX
	JOINT SEALANTS ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
KSI 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				
		m2	70,00	R	R

ITEM N	NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI 3.5	5.7	On turn-ups and turn-downs exceeding 300mm girth	m2	10,00	R	R
KSI 3.5	5.8	On sloping roofs	m2	79,00	R	R
KSI 3.5	5.9	On tops and sides of inverted beams	m2	15,00	R	R
KSI 3.5	5.10	On bottoms and sides of floor ducts, channels, etc	m2	15,00	R	R
KSI 3.5	5.11	On bottoms and sides of box gutters	m2	15,00	R	R
KSI 3.5	5.12	On bottoms and sides of plant boxes	m2	10,00	R	R
KSI 3.5	5.13	Sealing edges to brickwork or concrete	m	10,00	R	R
KSI 3.5		Sealing edges to brickwork or concrete including trowelled mastic bead	m	10,00	R	R
KSI 3.5	5.15	Additional membrane 300mm girth at internal and external angles	m	10,00	R	R
KSI 3.5	5.16	Dressing and sealing around pipe not exceeding 200mm external diameter, including additional membrane, gussets, collars, etc	No	5,00	R	R
KSI 3.5	5.17	On internal surfaces of 300 x 300 x 300mm deep sump, catchpit, etc	No	4,00	R	R
KSI 3.5	5.18	On concrete flat roofs including all turn-ups and turndowns and sealing edges where required.	m2	30,00	R	R
		PROTECTIVE STONE DRESSING				
		19mm Crushed stone dressing evenly spread with larger stones around outlets				
KSI 3.5	5.19	25mm Thick on waterproofing to flat roofs	m2	40,00	R	R
		PROTECTIVE ROOFING PAINT				
		Two coats "Silvakote" or similar approved bituminous aluminium paint				
KSI 3.5	5.20	On waterproofing to roofs	m2	40,00	R	R
KSI 3.5	5.21	On inside of existing box gutters	m2	40,00	R	R
		PROTECTIVE ROOFING SHEETING				
		Type 40 bituminous fibreglass felt laid loose				
KSI 3.5	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				
KSI 3.5	5.23	6 x 10mm In saw cut joints in floors	m	10,00	R	R
KSI 3.5	5.24	6 x 10mm In expansion joints in tiled walls etc	m	10,00	R	R
KSI 3.5	5.25	10 x 15mm In expansion joints in tiled floors etc	m	10,00	R	R
	5.26	10 x 15mm In expansion joints in floors including raking out expansion	m	10,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	R.A	NTE		AMOUNT
KSI 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						
KSI 3.5.28	6 x 10mm In saw cut joints in floors	m	10,00	R		R	
KSI 3.5.29	6 x 10mm In expansion joints in tiled walls etc	m	10,00	R		R	
KSI 3.5.30	10 x 15mm In expansion joints in tiled floors etc	m	10,00	R		R	
KSI 3.5.31	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	10,00	R		R	
KSI 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						
KSI 3.5.33	Provision for Sundry Materials & Plant	Prov	1,00	R	4 800,00	R	4 800,00
KSI 3.5.34	Allow for profit & attendance if required	%		R	4 800,00	R	
	Provisional Sum						
KSI 3.5.35 KSI 3.5.36	Sundry Waterproofing Works Allow for profit & attendance if required	Sum %	1,00		4 800,00 4 800,00		4 800,00

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				
KSI 3.6.1	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	10,00	R	R
KSI 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				
KSI 3.6.3	Provide the prime cost of R 2000.00 per door leaf & hinges for single door openings	No	10,00	R	R
KSI 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				
KSI 3.6.5	Provide the prime cost of R 3000.00 per door leaf & hinges for single door openings	No	10,00	R	R

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI	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				
KSI	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	3,00	R	R
KSI	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	3,00	R	R
		"Bitcon Industries" or similar approved Class B 2 hour fire rating hinged fire doors from 1,6mm thick pressed steel frames				
KSI	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	4,00	R	R
KSI	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	3,00	R	R
		Materials & Plant				
KSI	3.6.11	Provision for Sundry Materials & Plant	Prov	1,00	R 9 600,00	R 9 600,00
	3.6.12	Allow for profit & attendance if required	%	•	R 9 600,00	
		Provisional Sum				
	3.6.13	Sundry Carpentry & Joinery Works	Sum	1,00	R 9 600,00	
KSI	3.6.14	Allow for profit & attendance if required	%		R 9 600,00	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 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				
	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				
KSI 3.7.1	Ceilings installed using propriety framing system all according to manufacturers specifications	m2	50,00	R	R
KSI 3.7.2	Vertical ceilings installed using propriety framing system all according to manufacturers specifications	m2	40,00	R	R
KSI 3.7.3	Horizontal bulkheads installed using propriety framing system all according to manufacturers specifications	m2	40,00	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				
KSI 3.7.4	Ceilings suspended below soffits	m2	40,00	R	R
KSI 3.7.5	Horizontal bulkheads suspended below concrete soffits	m2	40,00	R	R
KSI 3.7.6	Sloping bulkheads suspended below concrete soffits	m2	40,00	R	R
KSI 3.7.7	Extra over ceiling for opening for sprinkler head	No	10,00	R	R
KSI 3.7.8	Extra over ceiling for opening for down lighter	No	10,00	R	R
KSI 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				
KSI 3.7.10	Ceilings suspended below soffits	m2	40,00	R	R
KSI 3.7.11	Horizontal bulkheads suspended below concrete soffits	m2	40,00	R	R
KSI 3.7.12	Sloping bulkheads suspended below concrete soffits	m2	40,00	R	R
KSI 3.7.13	Extra over ceiling for opening for sprinkler head	No	10,00	R	R
KSI 3.7.14	Extra over ceiling for opening for down lighter	No	10,00	R	R
KSI 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				
KSI 3.7.16	Pre-painted / coated cornices plugged	m	20,00	R	R
	Shadowline to suspended ceilings				
	Provide the prime cost of R 80.00 per meter for shadowline trim				
KSI 3.7.17	Pre-painted / coated shadowline trim fixed	m	20,00	R	R
	Insulation				
KSI 3.7.18	Isotherm 100mm thick polyester thermal ceiling insulation laid on ceilings (measured nett)	m2	90,00	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				
KSI 3.7.19	Partitioning up to 2 600mm high with bottom and top tracks plugged	m2	40,00	R	R
KSI 3.7.20	Partitioning up to 2 900mm high with bottom and top tracks plugged	m2	50,00	R	R
KSI 3.7.21	Partitioning up to 3 500mm high with bottom and top tracks plugged	m2	40,00	R	R
	DOORS				

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Provide the prime cost of R 2000.00 per door leaf & hinges for single door				
		openings				
KSI	3.7.22	Extra over partitioning for Single Door hung to pressed steel door frame including additional studding, trimming, etc.	No	3,00	R	R
		Provide the prime cost of R 3 500.00 for double door openings				
KSI	3.7.23	Extra over partitioning for Double Door hung to pressed steel door frame including additional studding, trimming, etc.	No	3,00	R	R
		Materials & Plant				
KSI	3.7.24	Provision for Sundry Materials & Plant	Prov	1,00	R 9 600,00	R 9 600,00
	3.7.25	Allow for profit & attendance if required	%	1,00	R 9 600,00	
		Dravisional Cum				
		Provisional Sum				
	3.7.26	Sundry Ceilings, Partitions & Access Flooring Works	Sum	1,00	R 9 600,00	
KSI	3.7.27	Allow for profit & attendance if required	%		R 9 600,00	R
		CARRIED TO SECTION SUMMARY				R
		CARRIED TO SECTION SUMMARY				K

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.8				
	FLOOR COVERINGS, WALL LININGS, ETC				
	PREAMBLES				
	PREAIVIDLES				
	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				
	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				
KSI 3.8.1	On floors	m2	70,00	R	R
KSI 3.8.2	On treads and risers of stairs	m2	20,00	R	R
	High traffic epoxy floor paint 2.5 to 3mm thick as per specialists specifications				
KSI 3.8.3	On floors	m2	94,00	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				
KSI 3.8.4	On floors	m2	70,00	R	R
KSI 3.8.5	On treads and risers of stairs	m2	20,00	R	R
	Materials & Plant				
KSI 3.8.6	Provision for Sundry Materials & Plant	Prov	1,00	R 4 800,00	R 4 800,0
KSI 3.8.7	Allow for profit & attendance if required	%	1,00	R 4 800,00	
	Provisional Sum				
KSI 3.8.8	Sundry Floor Coverings Wall Linings etc Works	Sum	1.00	p 4 900 00	p 4 000 0
KSI 3.8.8 KSI 3.8.9	Sundry Floor Coverings Wall Linings etc Works Allow for profit & attendance if required	Sum %	1,00	R 4 800,00 R 4 800,00	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 3				
	BUILDING WORKS				
	BILL NO.9				
	IRONMONGERY				
	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)				
	Qualitaty surreyors (2000 cartion)				
	SUPPLEMENTARY PREAMBLES				
	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 saw neading preceding the terms				
	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				
	randing to normangery				
	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				
	AS Anodised sliver AB Anodised bronze				
	AG Anodised bronze				
	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				
KSI 3.9.1	On single doors	No	20,00	R	R
KSI 3.9.2	On double doors	No	20,00	R	R

ITEM	I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HINGES, BOLTS, ETC				
		<u>Hinges</u>				
KSI 3	3.9.3	Provide the prime cost amount of R350.00 for 100 x 75mm butt hinges (per pair) installed complete	No	50,00	R	R
		PUSH PLATES AND KICKING PLATES				
		Push plates, kick plates etc				
KSI	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				
		<u>Door closers</u>				
KSI 3	3.9.5	Provide the prime cost amount of R3000.00 each for door closers installed complete	No	26,00	R	R
		Panic Bolts etc				
KSI 3	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
KSI 3	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				
KSI 3	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				
		Cabin Hooks etc				
KSI 3	3.9.9	Provide the prime cost amount of R300.00 each for cabin & coat hooks installed complete	No	20,00	R	R
		BATHROOM FITTINGS				
		Toilet Roll Holder				
KSI	3.9.10	Provide the prime cost amount of R1000.00 each for toilet roll holder plugged to brickwork.	No	11,00	R	R
		Soap Dispenser				
KSI 3	3.9.11	Provide the prime cost amount of R1000.00 each for soap dispenser plugged to brickwork.	No	10,00	R	R
		Stainless Steel Grab Rail				
KSI	3.9.12	Provide the prime cost amount of R1000.00 each for stainless steel grab	No	5,00	R	R
יוכא	J.J.12	rails plugged to brickwork.	INU	3,00		.`
		SUNDRIES				
					1	İ

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KSI	3.9.13	Door stop (CZ8731CH) fixed with counter sunk-sunk bolt into anchor bolt	No	10,00	R		R	
		Materials & Plant						
KSI	3.9.14	Provision for Sundry Materials & Plant	Prov	1,00	R	7 200,00	R	7 200,00
KSI	3.9.15	Allow for profit & attendance if required	%		R	7 200,00	R	
		Provisional Sum						
		Provisional Sum						
	3.9.16	Sundry Floor Ironmongery Works	Sum	1,00	R	7 200,00	R	7 200,0
KSI	3.9.17	Allow for profit & attendance if required	%		R	7 200,00	R	
		CARRIED TO SECTION SUMM	ARY				R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
	SECTION 3						
	BUILDING WORKS						
	BILL NO.10						
	METALWORK						
	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						
	Description of helps and a second						
	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						
	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						
	1 Come Think single reported heavy duty frame for helf brink well as well as						
	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						
KSI 3.10.1	Frame for door 813 x 2032mm high with three 100mm steel hinges per	No	40,00	R		R	
	leaf						
KSI 3.10.2	Frame for door 1613 x 2032mm high with three 100mm steel hinges per	No	20,00	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 butt ninges and including setting up, building in, miling back of frame with cement mortar, etc						
	With certain moreary etc						
KSI 3.10.3	Frame for door 813 x 2032mm high with three 100mm steel hinges per	No	40,00	R		R	
	leaf						
KSI 3.10.4	Frame for door 1613 x 2032mm high with three 100mm steel hinges per	No	20,00	R		R	
1.51 5.10.4	leaf	140	20,00			- 1	
	Materials & Plant						
KSI 3.10.5	Provision for Sundry Materials & Plant	Prov	1,00	R	61 800,00	R	61 800,0
KSI 3.10.6	Allow for profit & attendance if required	%	1,00	R	61 800,00		JI 300,0
					, -		
	Provisional Sum						
KSI 3.10.7	Sundry Metalworks	Sum	1,00	R	61 800,00	R	61 800,0
KSI 3.10.8	Mark up provision on sundry Metalorks	%	1,00	R	61 800,00		JI 000,00
						1	

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1					
 					
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	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 control of th				
	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		

ITEM	1 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				
KSI	3.11.1	25mm Thick on floors and landings	m2	130,00	R	R
KSI	3.11.2	30mm Thick on floors and landings	m2	40,00	R	R
	3.11.3	30mm Thick on floors on waterproofing membrane	m2	30,00	R	R
KSI	3.11.4	Average 30mm thick on floors with upper surface to falls	m2	10,00	R	R
KSI	3.11.5	Average 30mm thick on floors with upper surface to falls and currents	m2	10,00	R	R
KSI	3.11.6	Average 40mm thick on roofs with upper surface to falls	m2	10,00	R	R
KSI	3.11.7	Average 40mm thick on roofs with upper surface to falls and currents	m2	10,00	R	R
KSI	3.11.8	25mm Thick on treads and risers of stairs including reedings	m2	10,00	R	R
KSI	3.11.9	30mm Thick on treads and risers of stairs	m2	10,00	R	R
	3.11.10	30mm Thick on narrow widths not exceeding 300mm wide	m2	10,00	R	R
KSI	3.11.11	Reedings in finish on ramps	m2	10,00	R	R

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI	3.11.12	50 x 50mm Triangular fillets against walls, kerbs, etc	m	10,00	R	R
		Screeds steel trowelled, on concrete				
KSI	3.11.13	25mm Thick on floors and landings	m2	110,00	R	R
KSI	3.11.14	30mm Thick on floors and landings	m2	40,00	R	R
KSI	3.11.15	30mm Thick on floors on waterproofing membrane	m2	30,00	R	R
KSI	3.11.16	Average 30mm thick on floors with upper surface to falls	m2	10,00	R	R
KSI	3.11.17	Average 30mm thick on floors with upper surface to falls and currents	m2	10,00	R	R
KSI	3.11.18	Average 40mm thick on roofs with upper surface to falls	m2	10,00	R	R
KSI	3.11.19	Average 40mm thick on roofs with upper surface to falls and currents	m2	10,00	R	R
KSI	3.11.20	25mm Thick on treads and risers of stairs including reedings	m2	10,00	R	R
KSI	3.11.21	30mm Thick on treads and risers of stairs	m2	10,00	R	R
KSI	3.11.22	30mm Thick on narrow widths not exceeding 300mm wide	m2	10,00	R	R
KSI	3.11.23	Reedings in finish on ramps	m2	10,00	R	R
KSI	3.11.24	50 x 50mm Triangular fillets against walls, kerbs, etc	m2	10,00	R	R
		GRANOLITHIC		,		
		Untinted granolithic on concrete				
KSI	3.11.25	25mm Thick on floors and landings	m2	80,00	R	R
KSI	3.11.26	30mm Thick on floors and landings	m2	40,00	R	R
KSI	3.11.27	50mm Thick on floors and landings	m2	30,00	R	R
KSI	3.11.28	Average 30mm thick on floors with upper surface to falls	m2	10,00	R	R
KSI	3.11.29	Average 30mm thick on floors with upper surface to falls and currents	m2	10,00	R	R
KSI	3.11.30	Average 40mm thick on roofs with upper surface to falls	m2	10,00	R	R
KSI	3.11.31	Average 40mm thick on roofs with upper surface to falls and currents	m2	10,00	R	R
KSI	3.11.32	25mm Thick on treads and risers of stairs including reedings	m2	10,00	R	R
KSI	3.11.33	30mm Thick on treads and risers of stairs	m2	10,00	R	R
KSI	3.11.34	30mm Thick on narrow widths not exceeding 300mm wide	m2	10,00	R	R
	3.11.35	Reedings in finish on ramps	m2	10,00	R	R
	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
NOI	J.11.J/		111	10,00		Α
		EXTERNAL PLASTER				
		Class I cement plaster on brickwork				
KSI	3.11.38	On walls	m2	170,00	R	R

TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Class I cement plaster on concrete				
KSI 3.11.39	On walls / columns	m2	80,00	R	R
KSI 3.11.40	On soffits / beams	m2	80,00	R	R
	INTERNAL PLASTER				
	Class I cement plaster on brickwork				
KSI 3.11.41	On walls	m2	170,00	R	R
	Class I cement plaster on concrete				
KSI 3.11.42	On walls/ columns	m2	80,00	R	R
KSI 3.11.43	On soffits / beams	m2	80,00	R	R
	Rhinolite skim plaster 20mm thick with smooth trowel finish				
KSI 3.11.44	On partition walls	m2	80,00	R	R
KSI 3.11.45	On plaster board ceilings	m2	80,00	R	R
KSI 3.11.46	On bulkheads				
KSI 3.11.40		m2	80,00	R	R
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
KSI 3.11.47	3 x 25mm Flat section galvanised mild steel dividing strip set on edge in screed between different floor finishes	m	50,00	R	R
KSI 3.11.48	3 x 25mm Flat section brass dividing strip or waterbar set on edge in screed between different floor finishes	m	50,00	R	R
	Materials & Plant				
KSI 3.11.49	Provision for Sundry Materials & Plant	Prov	1,00	R 4 800,00	R 4 800,
KSI 3.11.50	Allow for profit & attendance if required	%		R 4 800,00	R
	Provisional Sum				
KSI 3.11.51 KSI 3.11.52	Sundry Plasterworks Allow for profit & attendance if required	Sum %	1,00	R 4 800,00	
K31 3.11.32	Allow for profit & attenuance in required	70		N 4 800,00	N .

ITEM 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				
	T Alling				
	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:				
KSI 3.12.1	On walls	m2	80,00	R	R
KSI 3.12.2	On narrow widths	m2	20,00	R	R
	Provide the prime cost amount of R 500.00 per m2 for porcelain wall tiles				
	fixed with adhesive to:				
KSI 3.12.3	On walls	m2	80,00	R	R
KSI 3.12.4	On narrow widths	m2	20,00	R	R
	FLOOR TILING				
	Provide the prime cost amount of R 500.00 per m2 for ceramic floor tiles fixed with adhesive to:				
KSI 3.12.5	On floors	m2	116,00	R	R
KSI 3.12.6	On narrow widths	m2	20,00	R	R
KSI 3.12.7	On floors landings in patterns	m2	40,00	R	R
	Provide the prime cost amount of R 500.00 per m2 for porcelain floor tiles fixed with adhesive to:				
KSI 3.12.8	On floors	m2	110,00	R	R
KSI 3.12.9	On narrow widths	m2	20,00	R	R
KSI 3.12.10	On floors landings in patterns	m2	40,00	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:						
KSI	3.12.11	Flat section dividing strips between tiles	m	20,00	R		R	
KSI	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:						
KSI	3.12.13	Corner protectors	m	10,00	R		R	
KSI	3.12.14	Stair nosings	m	10,00	R		R	
KSI	3.12.15	Single expansion joint strips with vinyl rubber inlay	m	10,00	R		R	
KSI	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 R	12 000,00 12 000,00		12 000,00
		Provisional Sum						
KSI	3.12.19	Sundry Tiling Works	Sum	1,00	R	12 000,00	R	12 000,00
KSI	3.12.20	Mark up provision on sundry Tiling Works	%		R	12 000,00		
		CARRIED TO SECTION SUMMARY					R	

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 blad 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
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				
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 MARINESS MERI			304 Stainless Steel				

ITEM NO	0	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Provide the prime cost amount of R 1800.00 each for wash troughs:				
KSI 3.13	3.1	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:				
KSI 3.13		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:				
KSI 3.13		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:				
KSI 3.13	3.4	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				
KSI 3.13	3.5	Provide the prime cost amount of R 2200.00 each for wall mounted basin	No	3,00	R	R
		Wash hand basin "Paraplegic"				
KSI 3.13		Provide the prime cost amount of R 2200.00 each for wall mounted paraplegic basin	No	3,00	R	R
		<u>Urinals</u>				
KSI 3.13	3.7	Provide the prime cost amount of R 5000.00 each for wall mounted urinals	No	3,00	R	R
		Toilets etc				
KSI 3.13		Provide the prime cost amount of R 4000.00 each for toilets installed complete	No	3,00	R	R
KSI 3.13		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				
KSI 3.13	3.10	40mm Wash trough waste	No	10,00	R	R
		TRAPS ETC				
		PVC				
KSI 3.13	3.11	Rubber waste reseal "P" 32x40mm (basin)	No	10,00	R	R
		TAPS, VALVES, ETC		-,		

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

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI	3.13.38	110mm Bend	No	10,00	R	R
KSI	3.13.39	110mm Inspection bend	No	10,00	R	R
KSI	3.13.40	110mm Junction	No	10,00	R	R
KSI	3.13.41	110mm Inspection junction	No	10,00	R	R
KSI	3.13.42	110mm Reducing junction	No	10,00	R	R
KSI	3.13.43	110mm Inspection reducing junction	No	10,00	R	R
KSI	3.13.44	110mm Reducer	No	10,00	R	R
KSI	3.13.45	110mm Pan connector	No	10,00	R	R
KSI	3.13.46	110mm Two way vent valve	No	10,00	R	R
		Testing				
KSI	3.13.47	Testing waste pipe system	Item	1,00	R	R
		WATER SUPPLIES				
		Class 0 copper pipes with brass compression couplings				
KSI	3.13.48	15mm Pipes	m	12,00	R	R
KSI	3.13.49	15mm Pipes chased into brickwork or concrete	m	12,00	R	R
KSI	3.13.50	22mm Pipes	m	12,00	R	R
KSI	3.13.51	22mm Pipes chased into brickwork or concrete	m	12,00	R	R
KSI	3.13.52	28mm Pipes	m	12,00	R	R
KSI	3.13.53	28mm Pipes chased into brickwork or concrete	m	12,00	R	R
KSI	3.13.54	35mm Pipes	m	12,00	R	R
KSI	3.13.55	35mm Pipes chased into brickwork or concrete	m	12,00	R	R
KSI	3.13.56	42mm Pipes	m	12,00	R	R
KSI	3.13.57	54mm Pipes	m	12,00	R	R
KSI	3.13.58	67mm Pipes	m	12,00	R	R
KSI	3.13.59	76mm Pipes	m	12,00	R	R
KSI	3.13.60	108mm Pipes	m	12,00	R	R
		Extra over Class 0 copper pipes for capillary fittings				
KSI	3.13.61	15mm Fittings	No	10,00	R	R
KSI	3.13.62	22mm Fittings	No	10,00	R	R
KSI	3.13.63	28mm Fittings	No	10,00	R	R
KSI	3.13.64	35mm Fittings	No	10,00	R	R
KSI	3.13.65	42mm Fittings	No	10,00	R	R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI 3.13.66	54mm Fittings	No	10,00	R	R
KSI 3.13.67	67mm Fittings	No	10,00	R	R
KSI 3.13.68	76mm Fittings	No	10,00	R	R
KSI 3.13.69	108mm Fittings	No	8,00	R	R
	Extra over Class 0 copper pipes for brass compression fittings				
KSI 3.13.70	15mm Fittings	No	10,00	R	R
KSI 3.13.71	22mm Fittings	No	10,00	R	R
KSI 3.13.72		No	10,00	R	R
KSI 3.13.73		No	10,00	R	R
KSI 3.13.74		No	10,00	R	R
KSI 3.13.75		No	10,00	R	R
			•		
KSI 3.13.76		No	10,00	R	R
KSI 3.13.77	76mm Fittings	No	10,00	R	R
KSI 3.13.78	Class 12.5 "HDPE" Pipes	No	10,00	R	R
KSI 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
KSI 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
KSI 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
KSI 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
KSI 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
KSI 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
KSI 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				
KSI 3.13.86	20mm Diameter Straight Coupling	No	5,00	R	R

ITEN	/I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI	3.13.87	20mm Diameter Reducing Coupling	No	5,00	R	R
KSI	3.13.88	20mm Diameter Equal Tee	No	5,00	R	R
KSI	3.13.89	20mm Diameter Male Adaptor	No	5,00	R	R
KSI	3.13.90	20mm Diameter 90 Degree Elbow	No	5,00	R	R
KSI	3.13.91	40mm Diameter Straight Coupling	No	5,00	R	R
KSI	3.13.92	40mm Diameter Reducing Coupling	No	5,00	R	R
KSI	3.13.93	40mm Diameter Equal Tee	No	5,00	R	R
KSI	3.13.94	40mm Diameter Male Adaptor	No	5,00	R	R
KSI	3.13.95	40mm Diameter 90 Degree Elbow	No	5,00	R	R
KSI	3.13.96	50mm Diameter Straight Coupling	No	5,00	R	R
KSI	3.13.97	50mm Diameter Reducing Coupling	No	5,00	R	R
KSI	3.13.98	50mm Diameter Equal Tee	No	5,00	R	R
KSI	3.13.99	50mm Diameter Male Adaptor	No	5,00	R	R
KSI	3.13.100	50mm Diameter 90 Degree Elbow	No	5,00	R	R
KSI	3.13.101	75mm Diameter Straight Coupling	No	5,00	R	R
KSI	3.13.102	75mm Diameter Reducing Coupling	No	5,00	R	R
KSI	3.13.103	75mm Diameter Equal Tee	No	5,00	R	R
KSI	3.13.104	75mm Diameter Male Adaptor	No	5,00	R	R
KSI	3.13.105	75mm Diameter 90 Degree Elbow	No	5,00	R	R
KSI	3.13.106	90mm Diameter Straight Coupling	No	5,00	R	R
KSI	3.13.107	90mm Diameter Reducing Coupling	No	5,00	R	R
KSI	3.13.108	90mm Diameter Equal Tee	No	5,00	R	R
KSI	3.13.109	90mm Diameter Male Adaptor	No	5,00	R	R
KSI	3.13.110	90mm Diameter 90 Degree Elbow	No	5,00	R	R
KSI	3.13.111	110mm Diameter Straight Coupling	No	5,00	R	R
KSI	3.13.112	110mm Diameter Reducing Coupling	No	5,00	R	R
KSI	3.13.113	110mm Diameter Equal Tee	No	5,00	R	R
KSI	3.13.114	110mm Diameter Male Adaptor	No	5,00	R	R
		110mm Diameter 90 Degree Elbow	No	5,00	R	R
		ELECTRIC WATER HEATERS		-,-,		
		"Kwikot" or similar approved including all fittings, adaptors, couplings, etc, for connection to the relevant piping.				

ITEN	/ NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KSI	3.13.116	Provide the prime cost amount of R 3000.00 each for undercounter geysers	No	2,00	R		R	
KSI	3.13.117	Provide the prime cost amount of R 7000.00 each for 100 litre geysers	No	3,00	R		R	
KSI	3.13.118	Provide the prime cost amount of R 9000.00 each for 150 litre geysers	No	3,00	R		R	
KSI	3.13.119	Provide the prime cost amount of R 11000.00 each for 200 litre geysers	No	3,00	R		R	
		Testing						
KSI	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						
KSI	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						
KSI	3.13.122	200mm Reinforced concrete slab, beam, wall, faced walls etc	No	3,00	R		R	
		Materials & Plant						
		Provision for Sundry Materials & Plant	Prov	1,00	R	14 400,00		14 400,00
KSI	3.13.124	Allow for profit & attendance if required	%		R	14 400,00	К	
		Provisional Sum						
KSI	3.13.125	Sundry Plumbing Works	Sum	1,00	R	14 400,00	R	14 400,00
KSI	3.13.126	Allow for profit & attendance if required	%		R	14 400,00	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)				
KSI	3.14.1	On internal walls	m2	200,00	R	R
KSI	3.14.2	On external walls	m2	200,00	R	R
KSI	3.14.3	On ceilings and beams	m2	200,00	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)				
KSI	3.14.4	On partitions	m2	140,00	R	R
KSI	3.14.5	On ceilings and cornices	m2	110,00	R	R
KSI	3.14.6	On fascias and barge boards	m2	40,00	R	R
		Apply one coat Professional Alkali resistant plaster primer and three coats Paint (Professional Superior Matt Paint)				
KSI	3.14.7	On Rhinolite walls	m2	110,00	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)				
KSI	3.14.8	On doors	m2	40,00	R	R
KSI	3.14.9	On door frames	m2	40,00	R	R
KSI	3.14.10	On windows	m2	40,00	R	R
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)				
KSI	3.14.11	On palisade fencing	m2	80,00	R	R
KSI	3.14.12	On steel barriers	m2	40,00	R	R
KSI	3.14.13	On balustrades	m2	40,00	R	R
KSI	3.14.14	On gates, grilles, burglar screens etc.	m2	40,00	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)				
KSI	3.14.15	On boarded panelling	m2	40,00	R	R
KSI	3.14.16	On boarded ceilings	m2	40,00	R	R
KSI	3.14.17	On doors	m2	40,00	R	R
KSI	3.14.18	On door frames	m2	40,00	R	R
KSI	3.14.19	On skirtings	m	40,00	R	R
		Prime bare areas with "Wood Primer" and apply two coats "Timber Varnish" (High gloss wood varnish)				
KSI	3.14.20	On boarded panelling	m2	40,00	R	R
KSI	3.14.21	On boarded ceilings	m2	40,00	R	R
KSI	3.14.22	On doors	m2	40,00	R	R
KSI	3.14.23	On door frames	m2	40,00	R	R
KSI	3.14.24	On skirtings	m	40,00	R	R
		STEEL ROOFS				
		Prepare surface, prime bare areas with primer and apply two coats roof				
		paint (Plascon Nuroof paint or equal approved)				
KSI	3.14.25	On metal roof sheets	m2	190,00	R	R
KSI	3.14.26	To cladding sheets	m2	80,00	R	R
		PREVIOUSLY PAINTED SURFACES				
		"Plascon professional range" or equal approved				
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
KSI	3.14.27	On internal walls	m2	150,00	R	R
KSI	3.14.28	On external walls	m2	150,00	R	R
KSI	3.14.29	On ceilings and beams	m2	110,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Matt Paint)				
KSI	3.14.30	On partitions	m2	110,00	R	R
KSI	3.14.31	On ceilings and cornices	m2	110,00	R	R
KSI	3.14.32	On fascias and barge boards	m2	40,00	R	R
		Prepare and apply two coats finishing coat (Professional Superior Low Sheen Paint)				
	3.14.33	On Rhinolite walls	m2	80,00	R	R

ITEN	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)						
KSI	3.14.34	Windows and door frames	m2	40,00	R		R	
		Prime bare areas with Anti-corrosive primer apply two coats Enamel Paint to mild steel (Professional high gloss enamel paint)						
KSI	3.14.35	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat ares)	m2	40,00	R		R	
		PAINT ON WOOD						
		Prepare and apply two full coats plascon alkyd enamel paint						
KSI	3.14.36	On general surfaces	m2	40,00	R		R	
		Prepare and apply two full coats plascon alkyd enamel paint						
KSI	3.14.37	On boarded panelling	m2	40,00	R		R	
KSI	3.14.38	On boarded ceilings	m2	40,00	R		R	
KSI	3.14.39	On doors	m2	40,00	R		R	
KSI	3.14.40	On door frames	m2	40,00	R		R	
KSI	3.14.41	On skirtings	m	40,00	R		R	
		Prepare and apply two coats "Timber Varnish" (High gloss wood varnish)						
KSI	3.14.42	On boarded panelling	m2	40,00	R		R	
KSI	3.14.43	On boarded ceilings	m2	40,00	R		R	
KSI	3.14.44	On doors	m2	40,00	R		R	
KSI	3.14.45	On door frames	m2	40,00	R		R	
KSI	3.14.46	On skirtings	m	40,00	R		R	
		STEEL ROOFS						
		Prepare surface, prime bare areas with primer and apply two coats roof paint (Plascon Nuroof paint or equal approved)						
KSI	3.14.47	On metal roof sheets	m2	190,00	R		R	
KSI	3.14.48	To cladding sheets	m2	40,00	R		R	
		Materials & Plant						
	3.14.49	Provision for Sundry Materials & Plant	Prov	1,00	R	12 000,00		12 000,0
KSI	3.14.50	Allow for profit & attendance if required	%		R	12 000,00	R	
146.	2445:	Provisional Sum	-	1.00		42.002.02		42.000 =
KSI	3.14.51 3.14.52	Sundry Paint Works Allow for profit & attendance if required	Sum %	1,00	R R	12 000,00 12 000,00		12 000,0

	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	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 S	SUMMARY	R
	CARRIED TO SITE S	SUMMARY	R

			CLUSTER 3 KSIA					
TEM 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							
KSI 4.1.1	Trim and level terraced area and compact to set levels.	m2	110,00	R	R			
	Digging up topsoil							
KSI 4.1.2	Digging up topsoil to an average depth of 150mm and preserving for use as filling	m3	20,00	R	R			
	BULK EXCAVATION, FILLING ETC							
KSI 4.1.3	Open face excavation in earth over sloping site	m3	20,00	R	R			
	Excavation							
KSI 4.1.4	Excavate in earth not exceeding 1000mm deep	m3	10,00	R	R			
	Keeping excavations free of water							
KSI 4.1.5	Keeping excavations free of water	Item	1,00	R	R			
	Extra over all excavations for carting away							
KSI 4.1.6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	5,00	R	R			
	LAYER WORK							
	Earth filling obtained from the excavations and/or prescribed stock piles on site							
KSI 4.1.7	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	5,00	R	R			
	Filling supplied by the contractor under parking areas, roadways, etc							
KSI 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	40,00	R	R			

TEN	I NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
KSI	4.1.9	G8 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	3,00	R	R
KSI	4.1.10	G7 Gravel-soil material in 150mm layers compacted to 93% Mod AASHTO density	m3	3,00	R	R
KSI	4.1.11	G7 Gravel-soil material in 150mm layers compacted to 95% Mod AASHTO density	m3	3,00	R	R
KSI	4.1.12	Extra over for G7 stabilised with Portland cement compacted to 95% Mod AASHTO density	m3	3,00	R	R
KSI	4.1.13	Subbase course of G6 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	3,00	R	R
KSI	4.1.14	G5 Natural gravel material compacted in 150mm layers to 93% Mod AASHTO density	m3	3,00	R	R
KSI	4.1.15	Subbase course of G5 natural gravel material in 150mm layers compacted to 95% Mod AASHTO density	m3	3,00	R	R
KSI	4.1.16	Base course of G4 natural gravel material in 150mm layers compacted to 98% Mod AASHTO density	m3	3,00	R	R
KSI	4.1.17	G2 base compacted to 100% Mod AASHTO density	m3	3,00	R	R
		Compaction of surfaces				
KSI	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	110,00	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				
KCI	4.1.19	Under roads, paving etc.	m2	110,00	R	R
KSI	4.1.13	TESTS	IIIZ	110,00	N .	
KSI	4.1.20	Prescribed tests to determine degree of compaction or similar approved properties of ground or filling				
KSI	4.1.21	"Modified AASHTO Density" test	No	1,00	R	R
KSI	4.1.22	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	1,00	R	R
KSI	4.1.23	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	1,00	R	R
KSI	4.1.24	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	1,00	R	R
KSI	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				
KSI 4.1.26	Paving to roadwork and parking to falls	m2	52,00	R	R
KSI 4.1.27	Extra over for curved edges	m	25,00	R	R
	Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing				
	KERBS ETC				
KSI 4.1.28	Fig.1 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 4.1.29	Fig.2 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 4.1.30	Fig.3 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 4.1.31	Fig.4 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 4.1.32	Fig.5 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 4.1.33	Fig.6 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 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
KSI 4.1.35	Fig.7 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 4.1.36	Fig.8 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 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
KSI 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
KSI 4.1.39	Fig.12 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 4.1.40	Fig.14 Kerbing with unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	10,00	R	R
KSI 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				
KSI 4.1.42	100mm Wide line	m	10,00	R	R

ITEM	1 NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KSI	4.1.43	150mm Wide line	m	10,00	R		R	
KSI	4.1.44	300mm Wide line	m	1,00	R		R	
KSI	4.1.45	Standard type directional arrow not exceeding 1m2	No	1,00	R		R	
KSI	4.1.46	2500 x 2000mm Wide "traffic arrow" road marking paint	No	1,00	R		R	
KSI	4.1.47	5400 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
KSI	4.1.48	6000 x 2400mm Wide "Pedestrian Crossing" road marking paint	No	1,00	R		R	
KSI	4.1.49	Standard directional arrow signs not exceeding 2m2	No	1,00	R		R	
		Materials & Plant						
KSI	4.1.50	Provision for Sundry Materials & Plant	Prov	1,00	R	4 800,00	R	4 800,00
KSI	4.1.51	Allow for profit & attendance if required	%		R	4 800,00	R	
		Provisional Sum						
	4.1.52 4.1.53	Sundry Road Works Allow for profit & attendance if required	Sum %	1,00	R R	4 800,00 4 800,00		4 800,00
KSI	4.1.55	Allow for profit & attenuance in required	70		N.	4 800,00	N.	
		CARRIED TO SECTION SUMMAR	Y				R	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	CECTION A				
	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 1200L : Mediani-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)				
	Lines otherwise described heading of visid since shall be Class D heading				
	Unless otherwise described bedding of rigid pipes shall be Class B bedding				
	STORM WATER PIPE				
	Heavy duty uPVC storm water pipes				
KSI 4.2.1	110mm Diameter pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	1,00	R	R
	Extra over for uPVC fittings				
KSI 4.2.2	110mm Bend	No	1,00	R	R
KSI 4.2.3	110mm Junction	No	1,00	R	R
KSI 4.2.4	110mm Access junction	No	1,00	R	R
KSI 4.2.5	110mm Rodding Eye	No	1,00	R	R
	uPVC pipe Class 34 HD				
KSI 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	1,00	R	R
	Extra over for uPVC fittings				
KSI 4.2.7	160mm Bend	No	1,00	R	R
KSI 4.2.8	160mm Junction	No	1,00	R	R
		110	1,00	.,	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
KSI	4.2.9	160mm Access junction	No	1,00	R		R	
KSI	4.2.10	160mm Rodding Eye	No	1,00	R		R	
KSI	4.2.11	Catch pits and junction boxes	No	1,00	R		R	
		MANHOLES ETC						
		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:						
KSI	4.2.12	Over 0m and up to 1.0m	No	1,00	R		R	
KCI	4242		N	1.00	D		-	
KSI	4.2.13	Over 1.0m and up to 2.0m	No	1,00	R		R	
KSI	4.2.14	Over 2m and up to 3m	No	1,00	R		R	
KSI	4.2.15	Over 3m and up to 4m	No	1,00	R	14 000,00	R	14 000,00
		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:						
		chainening and step irons for the following depths.						
KSI	4.2.16	Over 0m and up to 1.0m	No	1,00	R		R	
KSI	4.2.17	Over 1.0m and up to 2.0m	No	1,00	R		R	
KSI	4.2.18	Over 2m and up to 3m	No	1,00	R		R	
KSI	4.2.19	Over 3m and up to 4m	No	1,00	R		R	
		Testing Drainage System						
KSI	4.2.20	Testing soil drainage pipe system	Item	1,00	R		R	
		Materials & Plant						
KSI	4.2.21	Provision for Sundry Materials & Plant	Prov	1,00	R	2 400,00	R	2 400,00
KSI	4.2.22	Allow for profit & attendance if required	%		R	2 400,00	R	
		Provisional Sum						
KCI	4.2.23	Sundry Drainage Works	Sum	1,00	R	2 400,00	D	2 400,00
	4.2.24	Allow for profit & attendance if required	%	1,00	R	2 400,00		2 400,00
		CARRIED TO SECTION SUMMARY					R	
		CAMMED TO SECTION SOLVINIANT					••	

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:				
KSI 4.3.1	Over 0m and up to 1.0m	No	1,00	R	R
KSI 4.3.2	Over 1.0m and up to 2.0m	No	1,00	R	R
4.5.2	2.5. Liam and ap to Elam	.,,,	1,00	.,	.,
KSI 4.3.3	Over 2m and up to 3m	No	1,00	R	R
KSI 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:				
KSI 4.3.5	Over 0m and up to 1.0m	No	1,00	R	R
KSI 4.3.6	Over 1.0m and up to 2.0m	No	1,00	R	R
KSI 4.3.7	Over 2m and up to 3m	No	1,00	R	R
			1,00		
KSI 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				
KSI	4.3.9	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	1,00	R	R
KSI	4.3.10	110mm Pipes laid in and including trenches not exceeding 1m deep	m	1,00	R	R
		Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings				
KSI	4.3.11	110mm Bend	No	1,00	R	R
KSI	4.3.12	110mm Junction	No	1,00	R	R
KSI	4.3.13	110mm Access bend	No	1,00	R	R
KSI	4.3.14	110mm Access junction	No	1,00	R	R
KSI	4.3.15	110mm Rodding eye	No	1,00	R	R
		Class 34 uPVC pipes				
KSI	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	1,00	R	R
		Extra over items for uPVC fittings				
KSI	4.3.17	160 x 110 mm Diameter Y junction	No	1,00	R	R
KSI	4.3.18	160 x 160 mm Diameter Y junction	No	1,00	R	R
		Channel bends				
KSI	4.3.19	160mm Diameter 45 degree bend	No	1,00	R	R
KSI	4.3.20	160mm Diameter 90 degree bend	No	1,00	R	R
		Sockets				
KSI	4.3.21	160mm Diameter	No	1,00	R	R
		End caps				
KSI	4.3.22	160mm Diameter	No	1,00	R	R
		SUNDRIES				
KSI	4.3.23	Excavation in earth for pipe trenches, chambers, etc	m3	1,00	R	R
KSI	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
KSI	4.3.25	Risk of collapse to sides of trenches	m2	1,00	R	R
KSI	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
KSI	4.3.27	25Mpa unreinforced concrete encasing to horizontal pipes laid in trenches N.E 1m deep	m3	1,00	R	R
		WATER				
		WALL				

ITE	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
KSI	4.3.28	Keeping excavations free of water	Item	1,00	R	R	
		uPVC gulleys					
KSI	4.3.29	110mm Gulley not exceeding 750mm deep including trap, head, grating etc	No	1,00	R	R	
		Testing					
KSI	4.3.30	Testing drainage system	Item	1,00	R	R	
		Materials & Plant					
KSI	4.3.31 4.3.32	Provision for Sundry Materials & Plant Allow for profit & attendance if required	Prov %	1,00	R 2 400, R 2 400,	00 R 2 400,	,00
KSI	4.3.32		%		R 2 400,	JU K	
		Provisional Sum					
	4.3.33	Sundry Sewer Reticulation Works	Sum	1,00	R 2 400,	00 R 2 400,	,00
KSI	4.3.34	Allow for profit & attendance if required	%		R 2 400,	00 R	
		CARRIED TO SECTION SUMMARY				R	

	OFOTION / OUMANN EVERNAL WORKS		ANALINIT
BILL	SECTION 4 SUMMARY - EXTERNAL WORKS	PAGE NO.	AMOUNT
1	Road Works	220	R
2	Drainage	222	R
	Dramage	222	TV
3	Sewer Reticulation	225	R
			_
	CARRIED TO SITE	SUMMARY	R

					CLUSTER 3				
			KSIA						
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								
KSI 5.1	Provide the sum of R41,000.00 for Lateral Support, Ground Anchoring, Piling & Underpinning, Etc by an approved sub-contractor	Sum	1,00	R	41 000,00	R	41 000,		
KSI 5.2	Allow for profit & attendance if required	%		R	41 000,00	R			
	ROOF COVERINGS, CLADDINGS ETC								
KSI 5.3	Provide the sum of R250 ,000.00 for Roof Coverings, Claddings Etc by an approved sub-contractor	Sum	1,00	R	250 000,00	R	250 000		
KSI 5.4	Allow for profit & attendance if required	%		R	250 000,00	R			
	STRUCTURAL STEELWORK								
KSI 5.5	Provide the sum of R250,000.00 for Structural Steelwork by an approved sub-contractor	Sum	1,00	R	250 000,00	R	250 000		
KSI 5.6	Allow for profit & attendance if required	%		R	250 000,00	R			
		,,							
	JOINERY & CABINETRY INSTALLATION								
KSI 5.7	Provide the sum of R41,000.00 for the joinery & cabinetry installation by an approved sub-contractor	Sum	1,00	R	41 000,00	R	41 000		
KSI 5.8	Allow for profit & attendance if required	%		R	41 000,00	R			
+									

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY		RATE		AMOUNT
		ROLLER SHUTTERS & HANGAR DOORS						
KSI	5.9	Provide the sum of R83,000.00 for Roller Shutters & Hangar Doors by an approved sub-contractor	Sum	1,00	R	83 000,00	R	83 000,00
KSI	5.10	Allow for profit & attendance if required	%		R	83 000,00	R	
		GENERAL GLAZING						
KSI	5.11	Provide the sum of R41,000.00 for General Glazing by an approved sub- contractor	Sum	1,00	R	41 000,00	R	41 000,00
KSI	5.12	Allow for profit & attendance if required	%		R	41 000,00	R	
		ALUMINIUM FACADE CLADDING, SHOPFRONTS, WINDOWS AND DOORS						
KSI	5.13	Provide the sum of R83,000.00 for aluminium façade cladding, shopfronts, window and door installation by an approved sub-contractor	Sum	1,00	R	83 000,00	R	83 000,00
KSI	5.14	Allow for profit & attendance if required	%		R	83 000,00	R	
		SIGNAGE						
KSI	5.15	Provide the sum of R41,000.00 for corporate and directional signage by an approved subcontractor	Sum	1,00	R	41 000,00	R	41 000,00
KSI	5.16	Allow for profit & attendance if required	%		R	41 000,00	R	
		BLINDS, FURNITURE & FITTINGS						
KSI	5.17	Provide the sum of R62,000.00 for blinds, furniture and fittings by an approved subcontractor	Sum	1,00	R	62 000,00	R	62 000,00
KSI	5.18	Allow for profit & attendance if required	%		R	62 000,00	R	
		TENANT TEMPORARY RELOCATION & REINSTATEMENT						
KSI	5.19	Provide the sum of R 41,000.00 for tenant temporary relocation and reinstatement works by an approved subcontractor	Sum	1,00	R	41 000,00	R	41 000,00
KSI	5.20	Allow for profit & attendance if required	%		R	41 000,00	R	
		ASBESTOS REMOVAL						
KSI	5.21	Provide the sum of R41,000.00 for the Removal & Safe Disposal of Asbestos by an approved subcontractor	Sum	1,00	R	41 000,00	R	41 000,00
KSI	5.22	Allow for profit & attendance if required	%		R	41 000,00	R	
		GUTTERS & RAINWATER DISPOSAL SYSTEMS						
KSI	5.23	Provide the sum of R83,000.00 for Gutters & Rainwater Disposal Systems by an approved subcontractor	Sum	1,00	R	83 000,00	R	83 000,00
KSI	5.24	Allow for profit & attendance if required	%		R	83 000,00	R	
								-

ITEM NO	DESCRIPTION	UNIT	UNIT QUANTITY RATE		RATE	AMOUNT		
	ELECTRICAL, ELECTRONIC AND MECHANICAL INSTALLATIONS							
	GENERAL ELECTRICAL INSTALLATIONS							
KSI 5.25	Provide the sum of R250,000.0 for General Electical Installations by an approved subcontractor	Prov	1,00	R	250 000,00	R	250 000,	
KSI 5.26	Allow for profit & attendance if required	%		R	250 000,00	R		
	SUB - STATION INSTALLATIONS							
KSI 5.27	Provide the sum of R41,000.00 for Sub Station Installations by an approved subcontractor	Sum	1,00	R	41 000,00	R	41 000,	
KSI 5.28	Allow for profit & attendance if required	%		R	41 000,00	R		
	UPS INSTALLATIONS							
KSI 5.29	Provide the sum of R41,000.00 for UPS Installations by an approved subcontractor	Sum	1,00	R	41 000,00	R	41 000,	
KSI 5.30	Allow for profit & attendance if required	%		R	41 000,00	R		
	GENERATOR INSTALLATION							
KSI 5.31	Provide the sum of R41,000.00 for the Generator Installation by an approved sub-contractor	Sum	1,00	R	41 000,00	R	41 000,	
KSI 5.32	Allow for profit & attendance if required	%		R	41 000,00	R		
	FIRE DETECTION & FIRE STOPPING INSTALLATION							
KSI 5.33	Provide the sum of R62,000.00 for the Fire Detection & Fire Stopping Installation by an approved sub-contractor	Sum	1,00	R	62 000,00	R	62 000,	
KSI 5.34	Allow for profit & attendance if required	%		R	62 000,00	R		
	ACCESS CONTROL							
KSI 5.35	Provide the sum of R20,000.00 for the Access Control System installation by an approved sub-contractor	Sum	1,00	R	20 000,00	R	20 000,	
KSI 5.36	Allow for profit & attendance if required	%		R	20 000,00	R		
	CCTV INSTALLATION							
KSI 5.37	Provide the sum of R20,000.00 for CCTV installation by an approved sub- contractor	Sum	1,00	R	20 000,00	R	20 000,	
KSI 5.38	Allow for profit & attendance if required	%		R	20 000,00	R		
	INTERNET AND TELECOMMUNICATION INSTALLATION							
KSI 5.39	Provide the sum of R41,000.00 for the internet and telecommunication installation by an approved subcontractor	Sum	1,00	R	41 000,00	R	41 000,	
KSI 5.40	Allow for profit & attendance if required	%		R	41 000,00	R		

ITEM NO	DESCRIPTION		QUANTITY	RATE		AMOUNT	
	GENERAL MECHANICAL INSTALLATION						
KSI 5.41	Provide the sum of R250,000.00 for General Mechanical Installations by an approved subcontractor	Prov	1,00	R	250 000,00	R	250 000,0
KSI 5.42	Allow for profit & attendance if required	%		R	250 000,00	R	
	FIRE PROTECTION INSTALLATIONS						
KSI 5.43	Provide the sum of R41,000.00 for Fire Protection Installations by an approved subcontractor	Sum	1,00	R	41 000,00	R	41 000,0
KSI 5.44	Allow for profit & attendance if required	%		R	41 000,00	R	
	SPRINKLER INSTALLATIONS						
KSI 5.45	Provide the sum of R83,000.00 for Sprinkler Installations by an approved subcontractor	Sum	1,00	R	83 000,00	R	83 000,0
KSI 5.46	Allow for profit & attendance if required	%		R	83 000,00	R	
	GAS SUPPRESSION INSTALLATIONS						
KSI 5.47	Provide the sum of R83,000.00 for Gas Suppression Installations by an approved subcontractor	Sum	1,00	R	83 000,00	R	83 000,0
KSI 5.48	Allow for profit & attendance if required	%		R	83 000,00	R	
	SMOKE EXTRACTION INSTALLATIONS						
KSI 5.49	Provide the sum of R83,000.00 for Smoke Extraction Installations by an approved subcontractor	Sum	1,00	R	83 000,00	R	83 000,0
KSI 5.50	Allow for profit & attendance if required	%		R	83 000,00	R	
	HVAC INSTALLATION						
KSI 5.51	Provide the sum of R250,000.00 for the HVAC installation by an approved sub-contractor	Sum	1,00	R	250 000,00	R	250 000,0
KSI 5.52	Allow for profit & attendance if required	%		R	250 000,00	R	
	LANDSCAPING WORKS						
KSI 5.53	Provide the sum of R83,000.00 for Landscaping Works by an approved sub-contractor	Sum	1,00	R	83 000,00	R	83 000,0
KSI 5.54	Allow for profit & attendance if required	%		R	83 000,00	R	
	SPECIALIST WORKS						
KSI 5.55	Provide the sum of R41,000.00 for Specialist Works by an approved sub-contractor	Prov	1,00	R	41 000,00	R	41 000,0
KSI 5.56	Allow for profit & attendance if required	%		R	41 000,00	R	
	CARRIED TO SITE SUMMARY					R	

					TER 3 IA	13		
IPTION			UNIT	QUANTITY	RATE	АМО	UNT	
RECYCLIN	G							
RECYCLIN	G							
d safe disp	sed by permitte osal /recycling Ill waste remov							
nding wayl	ds and manifes ills and disposa permitted wast	ıl,						
	f disposal / rec transferring of							
	aste classificat eams encounte							
reflected mount aco antities had be recycle	client for items in these bills of ounts for the m e provided a ba d/repurposed a ditions and requ	quantities nonetary aseline and actual						
ste to land	till		ton	20,00	R	R		
l								
			Kg	80,00	(-R	(-R		
			Kg	80,00	(-R	(-R		
			Kg	80,00	(-R	(-R		
			Kg	80,00	(-R	(-R		
			Kg	80,00	(-R	(-R		
			Kg	80,00	(-R	(-R		
			Kg	80,00	(-R	(-R		
			Kg	80,00	(-R	(-R		
				Kg	Kg 80,00	Kg 80,00 (-R	Kg 80,00 (-R (-R	

ITEN	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		HAZARDOUS WASTE				
		Provisional Sum				
KSI	6.10	Hazardous Waste Classification & Disposal Costs	Sum	1,00	R 59 900,00 R 59 900,00	R 59 900,00
KSI	6.11	Allow for profit & attendance if required	%		R 59 900,00	R
						D
		CARRIED TO SITE SUMMARY				R

	SITE SUMMARY - KSIA	PAGE NO.	AMOUNT
	SITE SUMMART - RSIA	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

	CLUSTER SUMMARY	PAGE NO.	AMOUNT
	PRICE SUMMARY		
1	Chief Dawid Stuurman International Airport (CDSIA)	79	R
2	King Phalo Airport (KPA)	156	R
3	King Shaka International Airport (KSIA)	233	R
	SUB TOTAL - EXCLUDING VALUE ADDE	D TAX (VAT)	R
	VALUE ADDED TAX	R	
	TOTAL INCLUDING VALUE		