ltem No		Quantity	Rate	Amount
	SECTION 1			
	BILL NO. 1			
	PRELIMINARIES			
	BUILDING AGREEMENT AND PRELIMINARIES			
	The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described			
	The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities			
	Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof			
	These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents			
	Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"			
	Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence			
	Carried Forward Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

Brought Forward		R	
PREAMBLES FOR TRADES			
The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained			
Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project			
The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles			
<u>GENERAL</u>			
If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value			
SECTION A - PRINCIPAL BUILDING AGREEMENT			
Definitions (A1)			
Definitions and interpretation (clause 1)			
F: T:	Item		
Carried Forward Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

1

	Brought Forward		R	
	Objective and Preparation (A2 to A14)			
2	Offer acceptance and performance (clause 2)			
	F: V: T:	Item		
3	Documents (clause 3)			
	F: T:	Item		
4	Design responsibility (clause 4)			
	F: T:	Item		
5	Employer's agents (clause 5)			
	F: T:	Item		
	The principal agent shall:			
	- monitor and control progress and scheduling			
	- monitor all contract conditions, and			
	 coordinate the efforts of the employer's agents, the contractor and subcontractors 			
	The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part			
	Camical Famuum		5	
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

	Brought Forward		R	
	The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process			
6	Site representative (clause 6) F:	Item		
7	Compliance with regulations (clause 7)			
	F: T:	Item		
8	Works risk (clause 8) F:V:			
9	T:Indemnities (clause 9)	Item		
	F: T:	Item		
10	Works insurances (clause 10)			
11	F:V: T: Liability insurances (clause 11)	Item		
-	F: V:	ltem		
	Carried Forward Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

	Brought Forward		R	
12	Effecting insurance (clause 12)			
	F: T:	Item		
13	NO CLAUSE	N/A		
14	Security (clause 14)			
	F: T:	Item		
	Execution (A15-A23)			
15	Preparation for and execution of the works (clause 15)			
	F: T:	Item		
16	Access to the works (clause 16)			
	F: T:	ltem		
17	Contract instructions (clause 17)			
	F: T:	Item		
18	Setting out of the works (clause 18)			
	F: T:	Item		
	The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments			
	Carried Forward		R	
	Section No. 1 PRELIMINARIES & GENERALS BIII No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING			

	Brought Forward		R	
19	Assignment (clause 19)			
	F: T:	ltem		
	The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer			
20	Nominated subcontractors (clause 20)			
	F: V: T:	Item		
21	Selected subcontractors (clause 21)			
	F: T:	Item		
	Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted			
	All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors			
22	Employer's Direct Contractors (clause 22)			
	F: T:	ltem		
23	Contractor's Domestic Sub-Contractors (Clause 23)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING			

	Brought Forward	1	R	
	Completion (A24-A30)			
24	Practical completion (clause 24)			
	F: T:	Item		
25	Works completion (clause 25)			
	F: T:	Item		
26	Final completion (clause 26)			
	F: T:	Item		
27	Latent defects liability period (clause 27)			
	F: T:	Item		
28	Sectional completion (clause 28)			
	F: T:	ltem		
29	Revision of date of practical completion (clause 29)			
	F: T:	Item		
	The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)			
	Carried Forward Section No. 1 PRELIMINARIES & GENERALS		R	
	Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING			
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS		R	

	Brought Forward		R	
30	Penalty for non-completion (clause 30)			
	F: V: T:	Item		
	Payment (A31 - A35)			
31	Interim payment to the contractor (clause 31)			
	F: T:	Item		
32	Adjustment to the contract value (clause 32)			
	F: T:	ltem		
	Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing			
33	Recovery of expense and loss (clause 33)			
	F: T:	Item		
34	Final account and final payment (clause 34)			
	F: T:	Item		
	Carried Forward		R	_
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING			

	Brought Forward		R	
	The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion			
	The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account			
35	Payment to other parties (clause 35) F:	ltana		
	T:	Item		
	Cancellation (A36-A39)			
36	Cancellation by employer - contractor's default (clause 36)			
	F: T:	Item		
37	Cancellation by employer - loss and damage (clause 37)			
	F: T:	Item		
38	Cancellation by contractor - employer's default (clause 38)			
	F: T:	Item		
	Carried Forward Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

	Brought Forward		R	
39	Cancellation - cessation of the works (clause 39)			
	F: T:	ltem		
	Dispute (A40)			
40	Dispute Settlement (clause 40)			
	F: T:	Item		
	Substitute Provisions (A41)			
41	State clauses (Clause 41)			
	F: T:	Item		
	Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
	THE SCHEDULE			
	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
42	Pre-tender information (clause 42)			
	F: T:	ltem		
	42.1 CONTRACTING AND OTHER PARTIES			
	42.1.1 Employer: As per infomation on the tender data			
	Carried Forward		R	
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING			

Brought Forward	R	
42.1.2 Principal Agent: As per the infomation on the Tender data		
42.1.3 Architect:		
42.1.4 Quantity Surveyor:		
Structural:		
42.1.5 Civil:		
42.1.6 Electrical Engineer:		
42.1.6 Mechanical Engineer:		
42.2 CONTRACT DETAILS		
42.2.1 Works Description: Construction of sanitation facilities		
42.2.2 Site Description: as per the infomation on the tender data		
42.2.3 Work or installations by direct contractors:		
N/A		
Carried Forward Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING	R	

	Brought Forward	R	
where there	nent is for a government contract are specific options that are o a State organ only		
арриодого с	Yes		
42.2.5 Date on white to be given:	ich possession of the site is intended		
	UNKNOWN		
	ne commencement of the works after or takes possession - 5 days		
	ks as a whole. Intended date of mpletion and the penalty per y		
18 weeks after con	itractual commencement date Date		
The penalty	Penalty Amount amount shall be R 2000 per calendar		
	ks in sections : Intended date of mpletion and the penalty per y		
	Section 1 .N/A <i>Date</i>		
	.N/A Penalty Amount		
42.2.9 The law app that of	licable to this agreement shall be		
	South Africa (country)		
	Carried Forward	R	
Section No. 1	OFNEDALO		
PRELIMINARIES & Bill No. 1	GENERALS		
PRELIMINARIES & TASICH CONSULT			

42.3.1 INSURANCES 42.3.1 Contract works insurance to be effected by: Contractor: For the Sum of R Contract Amount + 20.00 % With a deductible of - to be determined by the contractor 42.3.2 Supplementary insurance is required Yes 42.3.3 Public liability insurance to be effected by: Contractor: For the Sum of R 10 000 000-00 With a deductible of - to be determined by the contractor 42.4 DOCUMENTS 42.4.1 Waivers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender tender	R	Brought Forward	
Contractor: For the Sum of R Contract Amount + 20.00 % With a deductible of - to be determined by the contractor 42.3.2 Supplementary insurance is required Yes 42.3.3 Public liability insurance to be effected by: Contractor: For the Sum of R 10 000 000-00 With a deductible of - to be determined by the contractor 42.4 DOCUMENTS 42.4.1 Waivers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender		SURANCES .	42.3
For the Sum of R Contract Amount + 20.00 % With a deductible of - to be determined by the contractor 42.3.2 Supplementary insurance is required Yes 42.3.3 Public liability insurance to be effected by: Contractor: For the Sum of R 10 000 000-00 With a deductible of - to be determined by the contractor 42.4 DOCUMENTS 42.4.1 Waivers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1		ntract works insurance to be effected by:	42.3.1
With a deductible of - to be determined by the contractor 42.3.2 Supplementary insurance is required Yes 42.3.3 Public liability insurance to be effected by: Contractor: For the Sum of R 10 000 000-00 With a deductible of - to be determined by the contractor 42.4 DOCUMENTS 42.4.1 Waivers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1		Contractor:	
42.3.2 Supplementary insurance is required Yes 42.3.3 Public liability insurance to be effected by: Contractor: For the Sum of R 10 000 000-00 With a deductible of - to be determined by the contractor 42.4 DOCUMENTS 42.4.1 Waivers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender		For the Sum of R Contract Amount + 20.00 %	
42.3.3 Public liability insurance to be effected by: Contractor: For the Sum of R 10 000 000-00 With a deductible of - to be determined by the contractor 42.4 DOCUMENTS 42.4.1 Walvers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1		_	
Contractor: For the Sum of R 10 000 000-00 With a deductible of - to be determined by the contractor 42.4 DOCUMENTS 42.4.1 Waivers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender			42.3.2
With a deductible of - to be determined by the contractor 42.4 DOCUMENTS 42.4.1 Waivers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1			42.3.3
42.4. DOCUMENTS 42.4.1 Waivers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1		For the Sum of R 10 000 000-00	
42.4.1 Waivers of contractors lien or right of continuing possession is required Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1		uctible of - to be determined by the contractor	With a
Yes 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1		CUMENTS	42.4
42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/Lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1			
supplied to the contractor free of charge: 3 Number of 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1		Yes	
42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1			42.4.2
schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work" 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1		3 Number of	
42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1			42.4.3
quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender Carried Forward R Section No. 1		andard System of Measuring Builders' Work"	
Carried Forward R Section No. 1		intities/lump sum document is to be	42.4.4
Section No. 1		·	The pr
Section No. 1			
Section No. 1	R	Carried Forward	
PRELIMINARIES & GENERALS BIII No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		1 ARIES & GENERALS ARIES & GENERALS	PRELIN Bill No. PRELIN

	Brought Forward		R	
	42.4.5 JBCC Engineering General Conditions are to be included in the contract documents : No			
	42.4.6 The contract value is to be adjusted using escalation adjustment indices			
	No Where JBCC CPAP is to be used Base Month N/A			
	42.4.7 Details of changes made to the provision of JBCC standard documentation:			
	SECTION B: PRELIMINARIES			
	Definitions and interpretation (B1)			
43	Definition and interpretation (B1.1 - B1.4.6)			
	F: T:	Item		
	Documents (B2)			
44	Checking of documents (B2.1)			
	F: T:	Item		
45	Provisional bills of quantities (B2.2)			
	F: T:	N/A		
46	Availability of construction documentation (B2.3)			
	F: T:	Item		
	Carried Forward Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

	Brought Forward		R	
47	Interests of agents (B2.4)			
	F: V: T:	Item		
48	Priced documents (B2.5)			
	F: T:	Item		
49	Tender submission (B2.6)			
	F: T:	Item		
50	Defined works area (B3.1)			
	F: T:	Item		
	The site (B3)			
51	Geotechnical investigation (B3.2)			
	F: T:	Item		
52	Inspection of the site (B3.3)			
	F: T:	Item		
	Existing premises occupied (B3.4)			
	F: T:			
	Carried Forward Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

	Brought Forward		R	
	Previous work - dimensional accuracy (B3.5)			
	F:V:			
	Previous work - defects (B3.6)			
	F:V: T:			
53	Services - known (B3.7)			
	F: V: T:	Item		
54	Services - unknown (B3.8)			
	F: T:	ltem		
55	Protection of trees etc (B3.9)			
	F: V: T:	Item		
56	Articles of value (B3.10)			
	F: T:	ltem		
	Management of contract (B4)			
57	Inspection of adjoining properties etc (B3.11)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		, ,	

	Brought Forward		R	
58	Management of the works (B4.1)			
	F: V: T:	Item		
5 9	Programme for the works (B4.2)			
	F: T:	Item		
60	Progress meetings (B4.3)			
	F: T:	Item		
61	Technical meetings (B4.4)			
	F: T:	Item		
62	Labour and Plant records (B4.5)			
	F: T:	Item		
	Samples, Shop Drawings and Manufacturer's Instructions (B5)			
63	Samples of materials (B5.1)			
	F: T:	Item		
64	Workmanship samples (B5.2)			
	F: T:	ltem		
	Carried Forward Section No. 1 PRELIMINARIES & GENERALS		R	
	Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING			

	Brou	ght Forward	R	
65	Shop drawings (B5.3)			
	F: V: T:	Item		
66	Compliance with Manufacturer's Instructions	(B5.4)		
	F: V: T:	Item		
	Temporary works and plant (B6)			
67	Deposits and fees (B6.1)			
	F: V: T:	Item		
68	Enclosure of the works (B6.2)			
	F:V: T:	Item		
69	Advertising (B6.3)			
	F:V: T:	Item		
70	Plant, equipment, sheds and offices (B6.4)			
	F: V: T:	ltem		
71	Main notice board (B6.5)			
	F:V: T:	Item		
	Carr Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING	ried Forward	R	
	I ASICH CUINSULTING			

	Brought Forward		R	
72	Subcontractors' notice board (B6.6)			
	F: T:	N/A		
	Temporary services (B7)			
73	Location (B7.1)			
	F: T:	Item		
74	Water (B7.2) Option [A] shall apply			
	F: T:	ltem		
75	Electricity (B7.3) Option [A] shall apply			
	F: T:	Item		
76	Telecommunication facilities (B7.4)			
	F: T:	ltem		
77	Ablution facilities (B7.5) Option [A] shall apply			
	F: T:	Item		
	Prime cost amounts (B8)			
78	Responsibility for prime cost amounts (B8.1)			
	F: T:	Item		
	Carried Forward Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

	Brought Forward		R	
	Attendance on N/S Subcontractors (B9)			
79	General attendance (B9.1)			
	F: T:	Item		
80	Special attendance (B9.2)			
	F: T:	ltem		
81	Commissioning - Fuel, water and power (B9.3)			
	F: T:	ltem		
	Financial aspects (B10)			
	Statutory taxes, duties and levies (B10.1)			
	F: T:	ltem		
82	Payment of preliminaries (B10.2) Option [B] shall apply			
	F: T:	Item		
83	Adjustment of preliminaries (B10.3) Option [A] shall apply			
	F: T:	ltem		
84	Payment certificate cash flow (B10.4)			
	F: T:	ltem		
	Carried Forward Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

	Brought Forward		R	
	General (B11)			
85	Protection of works (B11.1)			
	F: T:	Item		
86	Protection/isolation of existing/sectionally occupied works (B11.2)			
	F: T:	Item		
87	Security of the Works (B11.3) F: T:	Item		
88	Notice before covering work (B11.4)			
	F: T:	Item		
89	Disturbance (B11.5) F:			
	T:	Item		
90	Environmental Disturbance (B11.6)			
	F: T:	ltem		
91	Works cleaning and clearing (B11.7)			
	F: T:	Item		
92	Vermin (B11.8)			
	F: T:	Item		
	Carried Forward Section No. 1		R	
	PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING			

	Brought Forward		R	
93	Overhand work (B11.9)			
	F: T:	Item		
94	Instruction manuals and guarantees (B11.10)			
	F: T:	Item		
95	As built information (B11.11)			
	F: T:	Item		
96	Tenant Installations (B11.12)			
	F: T:	Item		
	Schedule of variables (B12)			
97	Pre-tender information (B12.1)			
	F: T:	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:			
	No			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete No			
	12.1.3 Interest of agents (B2.4)			
	12.1.4 Defined works area (B3.1)			
	Carried Forward		R	
	Section No. 1 PRELIMINARIES & GENERALS			
	Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING			

Brought Forward	R	
12.1.5 Geotechnical investigation (B3.2)		
N/A		
12.1.6 Existing premises occupied (B3.4)		
12.1.7 Previous work - dimensional accuracy (B3.4)		
12.1.8 Previous work - defects (B3.5)		
12.1.9 Services - known (B3.7)		
12.1.10 Protection of trees (B3.9)		
All trees should be protected and only on instruction of the Principal Agent may any trees be removed		
12.1.12 Enclosure of the works (B6.2)		
12.1.11 Inspection of adjoining properties (B3.11)		
12.1.13 Offices (B6.4.3)		
An office for the clerck of works should be provided		
12.1.14 Main notice board (B6.5)		
YES		
12.1.15 Subcontractors notice board (B6.6)		
A notice board is required No		
Section No. 1	R	
PRELIMINARIES & GENERALS Bill No. 1		
PRELIMINARIES & GENERALS TASICH CONSULTING		

Brought Forward	R	
12.1.16 Water (B7.2) Alternative Selected: A		
12.1.17 Electricity (B7.3) Alternative selected: A		
12.1.18 Telecommunications (B7.4)		
12.1.19 Ablution facilities (B7.5) Alternative selected: A		
12.1.20 Protection of existing/sectionally occupied works (B11.2)		
12.1.21 Special attendance (B9.2)		
Subcontractor (1) details:		
N/A		
12.1.22 Protection of the works (B11.1)		
N/A		
12.1.23 Disturbance (B11.5)		
N/A		
12.1.24 Environmental Disturbance (B11.6)		
N/A		
Post tender information (B12.2)		
12.2.1 Payment of preliminaries Alternative selected: B		
12.2.2 Adjustment of preliminaries Alternative selected: A		
12.2.3 Additional agreed preliminaries items N/A		
Carried Forward Section No. 1 PRELIMINARIES & GENERALS BIII No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING	R	

	Brought Forward		R		
	SECTION C: SPECIFIC PRELIMINARIES				
	Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included				
98	Site instructions				
	Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor				
	F: : T:	Item			
99	Black economic empowerment and training				
	<u>F</u> :V:				
	T:	ltem			
100	Proprietary branded products				
	F:V:				
	T:	Item			
101	Testing of flat roof waterproofing for watertightness				
	Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing				
	F: V: T:	ltem			
	Carried Forward		R		
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING				
		l	1	i l	

	Brought Forward		R	
	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative			
102	Contract instructions			
	F: T:	Item		
	Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor			
103	Labour record			
	F: T:	ltem		
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week			
104	Plant record			
	F: T:	ltem		
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week			
105	Guarantees			
	F: T:	Item		
	Carried Forward		R	_
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING			

	Brought Forward		R	
	Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement			
106	Overtime			
	F: T:			
		Item		
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer			
107	Co-operation of contractor for cost management			
	F: T:			
		Item		
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING		R	

	Brought Forward		R		
	It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors				
108	Occupational Health and Safety Specification				
	F: T:				
	•	Item			
	Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occopational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained SUMMARY OF CATEGORIES				
	Category : Fixed R				
	Category : Value R				
	Category : Time R				
	Carried to Final Summary		R		
	Section No. 1 PRELIMINARIES & GENERALS Bill No. 1 PRELIMINARIES & GENERALS TASICH CONSULTING				
		I	I	II	1

Item No			Quantity	Rate	Amount
	SECTION 2				
	BILL NO. 1				
	DEMOLITIONS AND ALTERATIONS				
	<u>View site</u>				
	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 and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	<u>Explosives</u>				
	No explosives whatsoever may be used for alteration purposes unless otherwise stated				
	DEMOLITIONS				
1	Single storey building with pitched roof 15,00 x 10,00m on plan and 3,0m high at eaves comprising unreinforced concrete surface bed,concrete footings, brick internal and external walls, corrugated iron roof covering on timber trusses including carting away.	No	1		
	REMOVAL OF EXISTING WORK				
	Breaking up and removing unreinforced concrete				
2	85mm Thick surface beds	m2	30		
	Breaking up and removing reinforced concrete, including cutting off and removing reinforcement				
3	Ramps	m3	2		
	Carried Forward Section No. 2 ALTERATIONS AND DEMOLITIONS Bill No. 1 ALTERATIONS AND DEMOLITIONS TASICH CONSULTING			R	

	Brought Forward		R	
	Breaking down and removing brickwork etc			
4	Half brick walls m2	2		
5	One brick walls m2	15		
	Carried to Final Summary		R	
	Section No. 2 ALTERATIONS AND DEMOLITIONS			
	Bill No. 1 ALTERATIONS AND DEMOLITIONS			
	TASICH CONSULTING			

tem No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.1				
	<u>EARTHWORKS</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	65		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	65		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	7		
4	Pit	m3	14		
5	For aprons thickenning	m3	2		
	Extra over trench and hole excavations in earth for				
	excavation:				
6	Soft rock	m3	2		
7	Hard rock	m3	2		
	Carried Forward Section No. 3 BUILDING WORKS - M2 Bill No. 1 EARTHWORKS TASICH CONSULTING			R	

	Brought Forward			R	
	Extra over all excavations for carting away:				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be alocated by the Contractor	m3	18		
	Risk of collapse of excavations				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	36		
	Keeping excavations free of water.				
10	Keeping excavations free of water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or				
	prescribed stock piles on site compacted to 93% Mod				
	AASHTO density				
11	Under floors, steps, pavings, etc.	m3	8		
12	Backfilling to trenches, holes, etc.	m3	7		
	Compaction of surfaces				
13	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	25		
14	Compaction of ground surface to pits 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	4		
15	Compaction of ground surface to aprons 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	28		
	Carried Forward Section No. 3 BUILDING WORKS - M2 Bill No. 1 EARTHWORKS TASICH CONSULTING			R	

	Brought Forward			R	
	Prescribed density tests on filling				
16	Modified AASHTO Density tests	No	4		
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	25		
18	To bottom of concrete aprons	m2	28		
19	To bottoms and sides of trenches, etc.	m2	20		
	Carried Forward to Summary of Section No. 3			R	_
	Section No. 3 BUILDING WORKS - M2 BIII No. 1 EARTHWORKS TASICH CONSULTING				
	TAGIOTI GONGOLTING				

Item No			Quantity	Rate	Amount
	BILL NO.2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to				
	be used - PW 371"				
	UNREINFORCED CONCRETE, ETC				
	25Mpa/19mm Concrete				
1	Strip footings	m3	2		
2	Ditto, but surface bed in pit	m3	2		
3	2Aprons cast in panels	m3	2		
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	10		
5	Thickening down apron on edge 110mm deep x 200mm wide	m	28		
	REINFORCED CONCRETE, ETC				
	25Mpa/19mm Concrete				
6	Slabs	m3	2		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float				
7	Aprons and pavings to falls	m2	27		
	Section No. 3			R	
	BUILDING WORKS - M2 Bill No. 2				
	CONCRETE, FORMWORK AND REINFORCEMENT TASICH CONSULTING				

	Brought Forward			R	
	TEST CUBES				
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	3		
	Finishing top surfaces of concrete smooth with a steel trowel				
9	Suface beds, slabs, etc.	m2	27		
	FORMWORK				
	Rough formwork to sides:				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	28		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m2	6		
12	Leave or form 500mm diameter opening in top of floor slab	No	2		
	REINFORCEMENT				
	High tensile and mild steel reinforcement to structural concrete work				
13	Various sizes	t	0.20		
	Mesh Reinforcement (measure nett)				
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	27		
					_
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 BUILDING WORKS - M2				
	Bill No. 2 CONCRETE,FORMWORK AND REINFORCEMENT TASICH CONSULTING				

ltem No		Quantity	Rate	Amount
	BILL NO.3			
	BRICKWORK			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	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 etc			
	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.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
	User note: The above preamble generally applies for works in hot and humid coastal areas			
	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			
	Section No. 3 BUILDING WORKS - M2 Bill No. 3 MASONRY TASICH CONSULTING		R	

	Brought Forward			R	
	<u>SAMPLES</u>				
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	FOUNDATIONS				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m2	7		
2	One brick walls in pit	m2	16		
3	Half brick corbelling in pit	m	5		
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
4	Extra over brickwork for face brickwork in foundation	m2	4		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
5	Half brickwork for face brick walls pointed both sides	m2	7		
6	One brickwork for face brick walls pointed both sides	m2	51		
7	Extra over brickwork for face brickwork in beamfilling	m2	3		
8	Fair raking and cutting	m	11		
	Carried Forward			R	
	Section No. 3 BUILDING WORKS - M2 Bill No. 3 MASONRY TASICH CONSULTING				

	Brought Forward			R	
	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	5		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	4		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	4		
	BRICKWORK SUNDRIES				
	Brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	66		
13	150mm Wide reinforcement built in horizontally	m	275		
	Turning pieces				
14	220mm Wide turning piece to lintel etc	m	2		
	Galvanised wire ties etc				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	12		
	Prestressed fabricated lintels				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	9		
	Ventillation bricks				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	4		
	Carried Forward to Summary of Section No. 3 Section No. 3 BUILDING WORKS - M2 Bill No. 3 MASONRY TASICH CONSULTING			R	

ltem No			Quantity	Rate	Amount
	BILL NO.4				
	WATERPROOFING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course				
1	In walls	m2	4		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape				
2	Under surface beds	m2	30		
	FLOOR AND WALLS SEALERS				
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames.	m	11		
	0			5	
	Carried Forward to Summary of Section No. 3 Section No. 3			R	
	BUILDING WORKS - M2 Bill No. 4				
	WATERPROOFING TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO.5				
	ROOF COVERINGS				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes				
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)				
1	Roof covering with pitch not exceeding 25 degrees	m2	23		
	Sundries				
2	12" Thermal resistance sisalition laid on purlins	m2	23		
	RAINWATER DISPOSAL				
	Aluzink seamless metal gutters:				
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	7		
4	Extra over for closed ends	No	2		
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	2		
6	Extra over rainwater pipe for eaves offset	No	2		
7	Ditto ,for shoe	No	2		
	Carried Forward to Summary of Section No. 3 Section No. 3 BUILDING WORKS - M2			R	
	Bill No. 5 ROOF COVERINGS TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	Sawn softwood				
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	27		
2	76 x 38mm Wall plates	m	16		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	28		
	Sundries				
4	Two coats creosote on sawn timbers	m2	23		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	10		
6	Hurricane clips	No	18		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	18		
	DOORS, ETC.				
	Carried Forward			R	
	Section No. 3 BUILDING WORKS - M2				
	Bill No. 6 CARPENTRY AND JOINERY TASICH CONSULTING				

	Brought Forward			R	
	Wrought meranti doors hung to steel frames				
8	44mm Purpose made Framed batten door 813 x 1 883mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	2		
9	44mm Framed ledged and braced batten door 900 x 2032mm high of 44 x 100mm top rail and stiles, 20 x 100mm bottom rail and 20 x 100mm middle ledge and braces, filled in with 20 x 76mm tongued and grooved V-jointed one side boarding and covered on other side with 4mm plywood with hardwood veneer to match door let into and including rebates all round and splayed 50 x 76mm weather bar (D3)	No	2		
	Ourist Famount to Ourona of Outline No. 0				
	Carried Forward to Summary of Section No. 3 Section No. 3 BUILDING WORKS - M2 Bill No. 6 CARPENTRY AND JOINERY TASICH CONSULTING			R	

Item No			Quantity	Rate	Amount
	BILL NO.7				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CATCHES, CABIN, HOOKS, ETC				
	<u>Approved</u>				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2		
	LOCKS				
	<u>Approved</u>				
2	Three lever mortice lockset	No	2		
3	Indicator lockset	No	2		
	DOORSTOPS				
	Approved				
4	38mm Diameter rubber door stop plugged	No	4		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved				
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	BATHROOM FITTINGS				
	"Kimberley-Clark"or Simlilar				
6	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	2		
	Carried Forward to Summary of Section No. 3 Section No. 3 BUILDING WORKS - M2 Bill No. 7 IRONMONGERY TASICH CONSULTING			R	

Item No			Quantity	Rate	Amount
	BILL NO.8				
	METALWORK				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	WELDED SCREENS, GATES, ETC				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls				
1	Frame for door 813 x 2032mm high	No	2		
	1,6mm Double rebated frames suitable for one brickwalls				
2	Frame for door 813 x 2032mm high	No	2		
	STEEL WINDOWS, DOORS, ETC				
3	Window type NE1, 533 x 654mm high including burglar bars	No	4		
4	Window type NE 7,1022 x 654mm high including burglar bars	No	2		
	Steel gates and frames				
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1		
6	Purpose made square hallow section mild steel security gate, size 914 x 2032mm High	No	1		
	Carried Forward to Summary of Section No. 3 Section No. 3 BUILDING WORKS - M2 Bill No. 8 METALWORK TASICH CONSULTING			R	

Item No			Quantity	Rate	Amount
	BILL NO. 9				
	PLASTERING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete:				
1	30mm thick on floors	m2	23		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork				
2	On pits walls	m2	17		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	23		
4	On internal textured plaster walls and floors in pit	m2	17		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 BUILDING WORKS - M2				
	Bill No. 9 IN SITU FINISHES				
	TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Supply and Install "Enviro-Loo" Industrial 1040 Model complete, installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets, drying plate, two x air inlets, standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping,etc	No	2		
2	Supply and Erect "Enviro-loo" "Industrial 1040 Model,2-bowl Urinal Evaporative Tank system fixed complete as per manufacturers specification unit, comprising of urinal evaporative tank, urinal bowls including brackets, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary piping, traps, etc	No	1		
	SOIL DRAINAGE				
	Normal duty (Class 51) uPVC sewer and drain pipes				
3	50mm Pipes	m	30		
4	110mm Pipes laid in and including trenches not exceeding 1m deep	m	10		
	Carried Forward Section No. 3 BUILDING WORKS - M2 Bill No. 10 PLUMBING AND DRAINAGE TASICH CONSULTING			R	

	Brought Forward			R	
	Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings				
5	50mm Bend	No	2		
6	50 mm Junction	No	2		
7	50mm Access junction	No	2		
8	110mm Bend	No	2		
9	110mm Junction	No	2		
	uPVC gulleys				
10	110mm Dished gulley trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	3		
	SANITARY FITTINGS				
11	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1		
	TRAPS, ETC.				
	<u>uPVC</u>				
12	32 x 50mm Deep seal "P" or "S" trap	No	2		
	TAPS, VALVES, ETC.				
	"Cobra Watertech" or other equal approved				
13	19mm chrome plated push button taps to wash troughs	No	2		
14	15mm gate valve plugged	No	2		
	WATER SUPPLIES				
	Carried Forward Section No. 3 BUILDING WORKS - M2 Bill No. 10 PLUMBING AND DRAINAGE TASICH CONSULTING			R	_
				I	

	Brought Forward			R	
	Class 0 copper pipes				
15	15 mm Pipes	m	25		
16	15mm Pipes chased in walls	m	30		
	Extra over class 0 copper pipes for capillary fittings				
17	15mm Fittings	No	5		
	Sundries				
18	Testing water pipe system		Item		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 BUILDING WORKS - M2				
	Bill No. 10 PLUMBING AND DRAINAGE				
	TASICH CONSULTING				

Item No		Quantity	Rate	Amount
	BILL NO. 11			
	GLAZING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	6.38mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m2	3		
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS - M2			
	Bill No. 11 GLAZING			
	TASICH CONSULTING			

Item No			Quantity	Rate	Amount
	BILL NO. 12				
	PAINTWORK				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ON FIBRE-CEMENT				
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint				
1	On fascias and barge boards	m2	4		
	ON WOOD				
	Undercoat and minimum 2 coat gloss enamel				
2	On doors (Internal)	m2	10		
3	On doors (External)	m2	5		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel				
4	On door frames	m2	2		
5	On gates (Measured over the full flat area of both sides)	m2	4		
6	On gutters and down pipes	m	9		
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel				
7	On windows with burglar bars	m2	3		
	Carried Forward to Summary of Section No. 3 Section No. 3 BUILDING WORKS - M2 Bill No. 12 PAINTWORK TASICH CONSULTING			R	

	SECTION SUMMARY - BUILDING WORKS - M2			
Bill No		Page No		Amount
1	EARTHWORKS	33		
2	CONCRETE, FORMWORK AND REINFORCEMENT	35		
3	MASONRY	38		
4	WATERPROOFING	39		
5	ROOF COVERINGS	40		
6	CARPENTRY AND JOINERY	42		
7	IRONMONGERY	43		
8	METALWORK	44		
9	IN SITU FINISHES	45		
10	PLUMBING AND DRAINAGE	48		
11	GLAZING	49		
12	PAINTWORK	50		
	Carried to Final Summary Section No. 3		R	
	BUILDING WORKS - M2 TASICH CONSULTING			

ltem No			Quantity	Rate	Amount
	SECTION 4				
	BILL NO.1				
	EARTHWORKS				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	67		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	67		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	7		
4	Pit	m3	15		
5	For aprons thickenning	m3	1		
	Extra over trench and hole excavations in earth for				
	excavation:				
6	Soft rock	m3	1		
7	Hard rock	m3	2		
	Extra over all excavations for carting away:				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be alocated by the Contractor	m3	16		
	Carried Forward Section No. 4			R	
	BUILDING WORKS - F4 Bill No. 1 EARTHWORKS TASICH CONSULTING				

	Brought Forward			R	
	Risk of collapse of excavations				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	49		
	Keeping excavations free of water.				
10	Keeping excavations free of water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or				
	prescribed stock piles on site compacted to 93% Mod				
	AASHTO density				
11	Under floors, steps, pavings, etc.	m3	4		
12	Backfilling to trenches, holes, etc.	m3	4		
	Compaction of surfaces				
13	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	16		
14	Compaction of ground surface to pits 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	9		
15	Compaction of ground surface to aprons 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	15		
	Prescribed density tests on filling				
16	Modified AASHTO Density tests	No	4		
	Carried Forward Section No. 4 BUILDING WORKS - F4 Bill No. 1 EARTHWORKS TASICH CONSULTING			R	

	Brought Forward			R	
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	16		
18	To bottom of concrate aprons	m2	9		
19	To bottoms and sides of trenches, etc.	m2	66		
	Carried Forward to Summary of Section No. 4 Section No. 4 BUILDING WORKS - F4 Bill No. 1 EARTHWORKS TASICH CONSULTING			R	

Item No			Quantity	Rate	Amount
	BILL NO.2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to				
	be used - PW 371"				
	UNREINFORCED CONCRETE, ETC				
	25Mpa/19mm Concrete				
1	Strip footings	m3	2		
2	Ditto, but surface bed in pit	m3	2		
3	Aprons cast in panels	m3	2		
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	9		
5	Thickening down apron on edge 110mm deep x 200mm wide	m	27		
	REINFORCED CONCRETE, ETC				
	25Mpa/19mm Concrete				
6	Slabs	m3	2		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float				
7	Aprons and pavings to falls	m2	8		
	Carried Forward Section No. 4 BUILDING WORKS - F4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT TASICH CONSULTING			R	

	Brought Forward			R	
	TEST CUBES				
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	4		
	Finishing top surfaces of concrete smooth with a steel trowel				
9	Suface beds, slabs, etc.	m2	32		
	FORMWORK				
	Rough formwork to sides:				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	10		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m2	6		
12	Leave or form 500mm diameter opening in top of floor slab	No	7		
	REINFORCEMENT				
	High tensile and mild steel reinforcement to structural concrete work				
13	Various sizes	t	0.30		
	Mesh Reinforcement (measure nett)				
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	32		
					\vdash
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 BUILDING WORKS - F4				
	Bill No. 2 CONCRETE,FORMWORK AND REINFORCEMENT TASICH CONSULTING				

Item No		Quantity	Rate	Amount
	BILL NO.3			
	BRICKWORK			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	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 etc			
	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.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
	User note: The above preamble generally applies for works in hot and humid coastal areas			
	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			
	Section No. 4 BUILDING WORKS - F4 Bill No. 3 MASONRY TASICH CONSULTING		R	

	Brought Forward			R	
	SAMPLES				
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	FOUNDATIONS				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m2	8		
2	One brick walls in pit	m2	25		
3	Half brick corbelling in pit	m	9		
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
4	Extra over brickwork for face brickwork in foundation	m2	5		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
5	Half brickwork for face brick walls pointed both sides	m2	16		
6	One brickwork for face brick walls pointed both sides	m2	51		
7	Extra over brickwork for face brickwork in beamfilling	m2	3		
8	Fair raking and cutting	m	3		
	Carried Forward			R	
	Section No. 4 BUILDING WORKS - F4 Bill No. 3 MASONRY TASICH CONSULTING				

	Brought Forward			R	
	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	6		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	6		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	6		
	BRICKWORK SUNDRIES				
	Brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	64		
13	150mm Wide reinforcement built in horizontally	m	114		
	<u>Turning pieces</u>				
14	220mm Wide turning piece to lintel etc	m	5		
	Galvanised wire ties etc				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	12		
	Prestressed fabricated lintels				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	6		
	Ventillation bricks				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	3		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 BUILDING WORKS - F4 Bill No. 3 MASONRY TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO.4				
	WATERPROOFING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course				
1	In walls	m2	8		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape				
2	Under surface beds	m2	62		
	FLOOR AND WALLS SEALERS				
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames.	m	50		
	Carried Forward to Summary of Section No. 4 Section No. 4 BUILDING WORKS - F4 Bill No. 4 WATERPROOFING TASICH CONSULTING			R	

Item No			Quantity	Rate	Amount
	BILL NO.5				
	ROOF COVERINGS				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)				
1	Roof covering with pitch not exceeding 25 degrees	m2	24		
	ROOF AND WALL INSULATION				
	<u>Sundries</u>				
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
2	Insulation laid taut over purlins (at approximately 1 000mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	24		
	RAINWATER DISPOSAL				
	Aluzink seamless metal gutters:				
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	5		
4	Extra over for closed ends	No	1		
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	4		
6	Extra over rainwater pipe for eaves offset	No	1		
7	Ditto ,for shoe	No	1		
	Carried Forward to Summary of Section No. 4 Section No. 4 BUILDING WORKS - F4 Bill No. 5 ROOF COVERINGS TASICH CONSULTING			R	
	BUILDING WORKS - F4 Bill No. 5 ROOF COVERINGS				

Item No			Quantity	Rate	Amount
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	Sawn softwood				
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	27		
2	76 x 38mm Wall plates	m	8		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	22		
	Sundries				
4	Two coats creosote on sawn timbers	m2	7		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	12		
6	Hurricane clips	No	12		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	13		
	DOORS, ETC.				
	Carried Forward Section No. 4 BUILDING WORKS - F4 Bill No. 6			R	
	CARPENTRY AND JOINERY TASICH CONSULTING				

	Brought Forward			R	
	Wrought meranti doors hung to steel frames				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1		
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	4		
	Carried Forward to Summary of Section No. 4			R	_
	Section No. 4 BUILDING WORKS - F4 Bill No. 6 CARPENTRY AND JOINERY TASICH CONSULTING				_

Item No			Quantity	Rate	Amount
	BILL NO.7				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CATCHES, CABIN, HOOKS, ETC				
	<u>Approved</u>				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2		
	LOCKS				
	<u>Approved</u>				
2	Three lever mortice lockset	No	2		
3	Indicator lockset	No	4		
	DOORSTOPS				
	<u>Approved</u>				
4	38mm Diameter rubber door stop plugged	No	5		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved				
5	75 x 150mm Natural anodised aluminium plate with female symbol	No	2		
	BATHROOM FITTINGS				
	Carried Forward Section No. 4 BUILDING WORKS - F4 Bill No. 7 IRONMONGERY TASICH CONSULTING			R	

	Brought Forward		R	
	"Kimberley-Clark"or Simlilar			
6	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No 4		
	<u>Sundries</u>			
7	Brushed stainless steel She bin approximately 330 x 280 x 180mm plugged	No 4		
				<u></u>
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS - F4 BIII No. 7 IRONMONGERY TASICH CONSULTING			
	TASICH CONSULTING			

Item No			Quantity	Rate	Amount
	BILL NO.8				
	METALWORK				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls				
1	Frame for door 813 x 2032mm high	No	4		
	1,6mm Double rebated frames suitable for one brickwalls				
2	Frame for door 813 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
	Standard industrial windows with type "B1" burglar bars to opening sashes				
3	Window type NE1, 533 x 654mm high	No	4		
4	Window type NE 7,1022 x 654mm high	No	2		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames				
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1		
	SUNDRIES ETC				
	<u>Cage,etc</u>				
6	She bin cages ,to fit 330 x 280 x180mm width ,she bin to be able to open ,including pad locking mechanism,complete,etc	No	4		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 BUILDING WORKS - F4 Bill No. 8 METALWORK TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO. 9				
	PLASTERING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete:				
1	30mm thick on floors	m2	21		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork				
2	On pits walls	m2	30		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	21		
4	On internal textured plaster walls and floors in pit	m2	30		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 BUILDING WORKS - F4				
	Bill No. 9 IN SITU FINISHES				
	TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Supply and Install "Enviro-Loo" Industrial 1040 Model complete,installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets, drying plate, two x air inlets, standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping,etc	No	4		
	SOIL DRAINAGE				
	Normal duty (Class 51) uPVC sewer and drain pipes				
2	50mm Pipes	m	30		
3	110mm Pipes laid in and including trenches not exceeding 1m deep	m	10		
	Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings				
4	50mm Bend	No	2		
5	50 mm Junction	No	2		
6	110mm Bend	No	2		
7	110mm Junction	No	2		
	Carried Forward Section No. 4 BUILDING WORKS - F4 Bill No. 10 PLUMBING AND DRAINAGE TASICH CONSULTING			R	

	Brought Forward			R	
	uPVC gulleys				
8	110mm Dished gulley trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	2		
	TAPS, VALVES, ETC				
9	19mm Chromium plated push-buton taps to wash troughs	No	2		
10	15mm gate valve plugged	No	2		
	SANITARY FITTINGS (PROVISIONAL)				
11	Supply and install pre-cast concrete double wash-trough, complete with all necessary fittings and pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1		
	TRAPS, ETC				
	"Marley"				
12	32 x 50mm Deep seal "P" or "S" trap	No	6		
	SANITARY PLUMBING				
	uPVC pipes				
13	50mm Pipes	m	10		
	Extra over uPVC pipes for fittings				
14	50mm Bend	No	2		
15	50 mm Junction	No	2		
16	50mm Access junction	No	2		
17	50mm Access bend	No	2		
18	50mm Access reducing junction	m	2		
	Carried Forward Section No. 4 BUILDING WORKS - F4 Bill No. 10 PLUMBING AND DRAINAGE TASICH CONSULTING			R	

	Brought Forward			R	
19	50mm "GI Two-way" vent valve	No	2		
	WATER SUPPLY				
	Class 0 copper pipes				
20	15 mm Pipes	m	25		
21	15mm Pipes chased in walls	m	35		
	Extra over class 0 copper pipes for capillary fittings				
22	15mm Fittings	No	5		
	Copper overflow and service pipes				
23	15mm Service pipe 350mm girth	No	1		
	Sundries				
24	Testing water pipe system		Item		
	Coming Engineerd to Community of Continue No. 4			R	
	Carried Forward to Summary of Section No. 4 Section No. 4			K	_
	BUILDING WORKS - F4 Bill No. 10				
	PLUMBING AND DRAINAGE TASICH CONSULTING				

Item No		Quantity	Rate	Amount
	BILL NO. 11			
	GLAZING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	6.38mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m2	3		
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS - F4			
	Bill No. 11 GLAZING			
	TASICH CONSULTING			

Item No			Quantity	Rate	Amount
	BILL NO. 12				
	<u>PAINTWORK</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ON FIBRE-CEMENT				
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint				
1	On fascias and barge boards	m2	8		
	ON WOOD				
	Undercoat and minimum 2 coat gloss enamel				
2	On doors (Internal)	m2	2		
3	On doors (External)	m2	13		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel				
4	On door frames	m2	5		
5	On gates (Measured over the full flat area of both sides)	m2	6		
6	On Gutters and downpipes	m	11		
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel				
7	On windows with burglar bars	m2	6		
	Carried Forward to Summary of Section No. 4 Section No. 4			R	
	BUILDING WORKS - F4 Bill No. 12 PAINTWORK TASICH CONSULTING				

	SECTION SUMMARY - BUILDING WORKS - F4			
Bill No		Page No		Amount
1	EARTHWORKS	54		
2	CONCRETE, FORMWORK AND REINFORCEMENT	56		
3	MASONRY	59		
4	WATERPROOFING	60		
5	ROOF COVERINGS	61		
6	CARPENTRY AND JOINERY	63		
7	IRONMONGERY	65		
8	METALWORK	66		
9	IN SITU FINISHES	67		
10	PLUMBING AND DRAINAGE	70		
11	GLAZING	71		
12	PAINTWORK	72		
	Carried to Final Summary Section No. 4		R	
	BUILDING WORKS - F4 TASICH CONSULTING			

ltem No			Quantity	Rate	Amount
	SECTION 5				
	BILL NO.1				
	<u>EARTHWORKS</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	100		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	100		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	13		
4	Pit	m3	33		
5	For aprons thickenning	m3	1		
	Extra over trench and hole excavations in earth for				
	excavation:				
6	Soft rock	m3	5		
7	Hard rock	m3	2		
	Extra over all excavations for carting away:				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be alocated by the Contractor	m3	10		
	Carried Forward Section No. 5 BUILDING WORKS - SD3			R	
	Bill No. 1 EARTHWORKS TASICH CONSULTING				

	Brought Forward			R	
	Risk of collapse of excavations				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	49		
	Keeping excavations free of water.				
10	Keeping excavations free of water other than subterranean water		ltem		
	Earth filling obtained from the excavations and/or				
	prescribed stock piles on site compacted to 93% Mod				
	AASHTO density				
11	Under floors, steps, pavings, etc.	m3	5		
12	Backfilling to trenches, holes, etc.	m3	39		
	Compaction of surfaces				
13	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	38		
14	Compaction of ground surface to pits 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	22		
15	Compaction of ground surface to aprons 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	32		
	Prescribed density tests on filling				
16	Modified AASHTO Density tests	No	4		
	Carried Forward Section No. 5 BUILDING WORKS - SD3 Bill No. 1 EARTHWORKS TASICH CONSULTING			R	_

	Brought Forward			R∥	
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	33		
18	To bottom of concrate aprons	m2	32		
19	To bottoms and sides of trenches, etc.	m2	55		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 BUILDING WORKS - SD3				
	Bill No. 1 EARTHWORKS				
	TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO.2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to				
	be used - PW 371"				
	UNREINFORCED CONCRETE, ETC				
	25Mpa/19mm Concrete				
1	Strip footings	m3	5		
2	Ditto, but surface bed in pit	m3	2		
3	2Aprons cast in panels	m3	3		
4	Ramp	m3	1		
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	25		
6	Thickening down apron on edge 110mm deep x 200mm wide	m	32		
	REINFORCED CONCRETE, ETC				
	25Mpa/19mm Concrete				
7	Slabs	m3	3		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float				
8	Aprons and pavings to falls	m2	25		
	Carried Forward			R	
	Section No. 5 BUILDING WORKS - SD3				
	Bill No. 2 CONCRETE,FORMWORK AND REINFORCEMENT				
	TASICH CONSULTING				

	Brought Forward			R	
	TEST CUBES				
9	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	4		
	Finishing top surfaces of concrete smooth with a steel trowel				
10	Suface beds, slabs, etc.	m2	33		
	FORMWORK				
	Rough formwork to sides:				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	32		
	Permanent formwork to soffits:				
12	Slabs propped up not exceeding 1.5m high	m2	12		
13	Leave or form 500mm diameter opening in top of floor slab	No	5		
	REINFORCEMENT				
	High tensile and mild steel reinforcement to structural concrete work				
14	Various sizes	t	0.38		
	Mesh Reinforcement (measure nett)				
15	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	33		
	Carried Forward to Summary of Section No. 5 Section No. 5			R	
	BUILDING WORKS - SD3 Bill No. 2				
	CONCRETE, FORMWORK AND REINFORCEMENT TASICH CONSULTING				

Item No		Quantity	Rate	Amount
	BILL NO.3			
	BRICKWORK			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	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 etc			
	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.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
	User note: The above preamble generally applies for works in hot and humid coastal areas			
	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			
	Section No. 5 BUILDING WORKS - SD3 Bill No. 3 MASONRY TASICH CONSULTING		R	

	Brought Forward			R	
	SAMPLES				
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	FOUNDATIONS				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m2	15		
2	One brick walls in pit	m2	21		
3	Half brick corbelling in pit	m	25		
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
4	Extra over brickwork for face brickwork in foundation	m2	11		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
5	Half brickwork for face brick walls pointed both sides	m2	23		
6	One brickwork for face brick walls pointed both sides	m2	99		
7	Extra over brickwork for face brickwork in beamfilling	m2	6		
8	Fair raking and cutting	m	11		
	Carried Forward			R	
	Section No. 5 BUILDING WORKS - SD3 Bill No. 3 MASONRY TASICH CONSULTING				

	Brought Forward			R	
	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	9		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	11		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	2		
	BRICKWORK SUNDRIES				
	Brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	76		
13	150mm Wide reinforcement built in horizontally	m	290		
	<u>Turning pieces</u>				
14	220mm Wide turning piece to lintel etc	m	6		
	Galvanised wire ties etc				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	27		
	Prestressed fabricated lintels				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	8		
	Ventillation bricks				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8		
	Carried Forward to Summary of Section No. 5 Section No. 5 BUILDING WORKS - SD3 Bill No. 3 MASONRY TASICH CONSULTING			R	

Item No			Quantity	Rate	Amount
	BILL NO.4				
	WATERPROOFING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course				
1	In walls	m2	6		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape				
2	Under surface beds	m2	32		
	FLOOR AND WALLS SEALERS				
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames.	m	11		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 BUILDING WORKS - SD3 Bill No. 4 WATERPROOFING				
	TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO.5				
	ROOF COVERINGS				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes				
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)				
1	Roof covering with pitch not exceeding 25 degrees	m2	36		
	Sundries				
2	12" Thermal resistance sisalation laid on purlins	m2	37		
	RAINWATER DISPOSAL				
	Aluzink seamless metal gutters:				
3	$100 \times 100 \times 0.6$ mm Standard rainwater gutters fixed with gutters brackets	m	8		
4	Extra over for closed ends	No	2		
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	6		
6	Extra over rainwater pipe for eaves offset	No	2		
7	Ditto ,for shoe	No	2		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 BUILDING WORKS - SD3 Bill No. 5				
	ROOF COVERINGS TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	Sawn softwood				
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	42		
2	76 x 38mm Wall plates	m	8		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	47		
	<u>Sundries</u>				
4	Two coats creosote on sawn timbers	m2	29		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	18		
6	Hurricane clips	No	24		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	25		
	DOORS, ETC.				
	Carried Forward Section No. 5 BUILDING WORKS - SD3 Bill No. 6			R	
	CARPENTRY AND JOINERY TASICH CONSULTING				

	Brought Forward			R	
	Wrought meranti doors hung to steel frames				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	3		
9	44mm Purpose made Framed batten door 813 x 2 032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	2		
		NO	2		
10	44mm Framed ledged and braced batten door 900 x 2032mm high of 44 x 100mm top rail and stiles, 20 x 100mm bottom rail and 20 x 100mm middle ledge and braces, filled in with 20 x 76mm tongued and grooved V-jointed one side boarding and covered on other side with 4mm plywood with hardwood veneer to match door let into and including rebates all round and splayed 50 x 76mm up at her (D2)				
	76mm weather bar (D3)	No	1		
	Carried Forward to Summary of Section No. 5 Section No. 5 BUILDING WORKS - SD3 Bill No. 6 CARPENTRY AND JOINERY TASICH CONSULTING			R	_

Item No		Quantity	Rate	Amount
	BILL NO.7			
	IRONMONGERY			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	CATCHES, CABIN, HOOKS, ETC			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged No	3		
	LOCKS			
	<u>Approved</u>			
2	Three lever mortice lockset plugged No	2		
3	Indicator lockset plugged No	3		
	HANDLES			
	Aluminium Pull Handle			
4	Set of two, 300mm pull handles fixed back to back on doors	1		
	<u>DOORSTOPS</u>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged No	5		
	DOOR CLOSERS			
	Carried Forward Section No. 5 BUILDING WORKS - SD3 Bill No. 7 IRONMONGERY TASICH CONSULTING		R	
		1		I

	Brought Forward			R	
	"Dorma" or equal approved				
6	Dormakaba EN 2-4 Parallel Arm DELAYED ACTION Door Closer. Push Side Fixing (Parallel Arm Bracket Included) EN2 750-850, EN3 850-950, EN4 950-1100. Code TS73V PA DC - PAB - SL	No	1		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved				
7	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	3		
	"Vaal Paragon" or similar approved				
8	32mm Type 9 back grab rail 800mm long plugged	No	1		
9	32mm Type 8 side grab rail 900mm girth plugged	No	1		
	BATHROOM FITTINGS				
	"Kimberley-Clark"or Simlilar				
10	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4		
	Sundries				
11	Brushed stainless steel She bin approximately 330 x 280 x 180mm plugged	No	1		
	Carried Forward to Summary of Section No. 5 Section No. 5			R	
	BUILDING WORKS - SD3 Bill No. 7				
	IRONMONGERY TASICH CONSULTING				
'		1	i i	"	ı

Item No			Quantity	Rate	Amount
	BILL NO.8				
	METALWORK				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls				
1	Frame for door 813 x 2032mm high	No	3		
	1,6mm Double rebated frames suitable for one brickwalls				
2	Frame for door 813 x 2032mm high	No	2		
3	Frame for door 914 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
4	Window type NE1, 533 x 654mm high including burglar bars	No	5		
5	Window type NE 7,1022 x 654mm high including burglar bars	No	2		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames				
6	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2		
7	Purpose made square hallow section mild steel security gate, size 914 x 2032mm High	No	1		
	SUNDRIES ETC				
	Section No. 5 BUILDING WORKS - SD3 Bill No. 8 METALWORK TASICH CONSULTING			R	

	Brought Forward		R	
	<u>Cage,etc</u>			
8	She bin cages ,to fit 330 x 280 x180mm width, she bin to be able to open including pad locking mechanism, complete, etc No	1		
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS - SD3 Bill No. 8 METALWORK TASICH CONSULTING			

Item No			Quantity	Rate	Amount
	BILL NO. 9				
	PLASTERING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete:				
1	30mm thick on floors	m2	32		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork				
2	On pits walls	m2	38		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	32		
4	On internal textured plaster walls and floors in pit	m2	38		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 BUILDING WORKS - SD3				
	Bill No. 9 IN SITU FINISHES				
	TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Supply and Install "Enviro-Loo" Industrial 1040 Model complete, installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets, drying plate, two x air inlets, standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping, etc	No	4		
2	Supply and Erect "Enviro-loo" "Industrial 1040 Model,1-bowl Urinal Evaporative Tank system fixed complete as per manufacturers specification unit, comprising of urinal evaporative tank, urinal bowls including brackets, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary piping, traps, etc	No	1		
	SOIL DRAINAGE				
	Normal duty (Class 51) uPVC sewer and drain pipes				
3	110mm Pipes vertically or ramped to cleaning eyes, etc.	m	30		
4	110mm Pipes laid in and including trenches not exceeding 1m deep	m	30		
	Carried Forward Section No. 5 BUILDING WORKS - SD3 Bill No. 10 PLUMBING AND DRAINAGE TASICH CONSULTING			R	

	Brought Forward			R	
	Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings				
5	110mm Bend	No	5		
6	110mm Junction	No	5		
7	110mm Rodding eye	No	3		
8	110mm Inspection eye	No	3		
	uPVC gulleys				
9	110mm Dished gulley trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	2		
	Testing:				
10	Testing soil drainage system		Item		
	SANITARY FITTINGS				
	Vaal or equal approved				
11	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1		
	PCC WASH TROUGH				
12	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1		
40	WASTE UNIONS, ETC	Nia	4		
13	32mm "301CP" Basin waste union	No	1		
	TRAPS, ETC. Carried Forward Section No. 5 BUILDING WORKS - SD3			R	
	Bill No. 10 PLUMBING AND DRAINAGE TASICH CONSULTING				

	d		R	
"Marley"				
32 x 50mm Deep seal "P" or "S" trap	No	4		
TAPS, VALVES, ETC.				
"Cobra Watertech" or other equal approved				
19mm Chrome plated push button taps to WHB	No	2		
15mm Elbow action pillar tap	No	1		
15mm gate valve plugged	No	2		
SANITARY PLUMBING				
uPVC pipes				
50mm Pipes	m	30		
Extra over uPVC pipes for fittings				
50mm Bend	No	2		
50 mm Junction	No	2		
50mm Access junction	No	2		
50mm Access bend	No	2		
50mm Access reducing junction	m	2		
50mm "GI Two-way" vent valve	No	2		
WATER SUPPLIES				
Class 0 copper pipes				
15 mm Pipes	m	25		
15mm Pipes chased in walls	m	35		
Carried Forward Section No. 5 BUILDING WORKS - SD3 Bill No. 10 PLUMBING AND DRAINAGE TASICH CONSULTING	d		R	
	TAPS, VALVES, ETC. "Cobra Watertech" or other equal approved 19mm Chrome plated push button taps to WHB 15mm Elbow action pillar tap 15mm gate valve plugged SANITARY PLUMBING uPVC pipes 50mm Pipes Extra over uPVC pipes for fittings 50mm Bend 50 mm Junction 50mm Access junction 50mm Access reducing junction 50mm "GI Two-way" vent valve WATER SUPPLIES Class 0 copper pipes 15 mm Pipes 15 mm Pipes 15 mm Pipes chased in walls Carried Forwar Section No. 5 BUILDING WORKS - SD3 BUILDING WORKS - SD3 BUILDING WORKS - AND DRAINAGE	32 x 50mm Deep seal "P" or "S" trap TAPS, VALVES, ETC. "Cobra Watertech" or other equal approved 19mm Chrome plated push button taps to WHB No 15mm Elbow action pillar tap No 55mm gate valve plugged No SANITARY PLUMBING uPVC pipes 50mm Pipes mm Extra over uPVC pipes for fittings 50mm Bend No 50mm Access junction No 50mm Access junction Mo 50mm Access reducing junction mm 50mm "GI Two-way" vent valve No WATER SUPPLIES Class 0 copper pipes 15 mm Pipes mm 15mm Pipes chased in walls mm Carried Forward Section No. 5 BUILDING WORKS - SD3 Bill No. 10 PLUMBING AND DRAINAGE	32 x 50mm Deep seal "P" or "S" trap TAPS, VALVES, ETC. "Cobra Watertech" or other equal approved 19mm Chrome plated push button taps to WHB No 15mm Elbow action pillar tap No 15mm gate valve plugged No 2 SANITARY PLUMBING uPVC pipes 50mm Pipes m 30 Extra over uPVC pipes for fittings 50mm Bend No 2 50mm Access junction No 2 50mm Access junction No 2 50mm Access reducing junction m 2 50mm "GI Two-way" vent valve No 2 WATER SUPPLIES Class 0 copper pipes 15 mm Pipes m 25 15mm Pipes chased in walls Carried Forward Section No. 5 BUILDING WORKS - SD3 Bill No. 10 PLUMBING AND DRAINAGE	32 x 50mm Deep seal "P" or "S" trap No 4 TAPS, VALVES, ETC. "Cobra Watertech" or other equal approved 19mm Chrome plated push button taps to WHB No 2 15mm Elbow action pillar tap No 1 15mm gate valve plugged No 2 SANITARY PLUMBING PLUMBING 2 uPVC pipes m 30 50mm Pipes m 30 Extra over uPVC pipes for fittings 50mm Bend No 2 50mm Junction No 2 50mm Access junction No 2 50mm Access bend No 2 50mm Access reducing junction m 2 50mm "GI Two-way" vent valve No 2 WATER SUPPLIES Class 0 copper pipes 15 mm Pipes m 25 15 mm Pipes chased in walls m 35 Carried Forward R Section No. 5 BUILDING WORKS - SD3 Bill No. 10 PLUMBING AND DRAINAGE R

	Brought Forward		R	
	Extra over class 0 copper pipes for capillary fittings			
27	15mm Fittings No	5		
	Copper overflow and service pipes			
28	15mm Service pipe 350mm girth No	1		
	<u>Sundries</u>			
29	Testing water pipe system	Item		
	Carried Forward to Summary of Section No. 5		R	L
	Section No. 5 BUILDING WORKS - SD3			
	Bill No. 10 PLUMBING AND DRAINAGE			
	TASICH CONSULTING			

Item No		Quantity	Rate	Amount
	BILL NO. 11			
	GLAZING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	6.38mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m2	3		
	Stainless steel			
2	Stainless steel mirror size 350 x 400m plugged to wall with chrome platted screws.	1		
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS - SD3			
	Bill No. 11 GLAZING TASICH CONSULTING			
	TASICH CONSULTING			
				1

Item No			Quantity	Rate	Amount
	BILL NO. 12				
	PAINTWORK				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ON FIBRE-CEMENT				
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint				
1	On fascias and barge boards	m2	5		
	ON WOOD				
	Undercoat and minimum 2 coat gloss enamel				
2	On doors (Internal)	m2	13		
3	On doors (External)	m2	11		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel				
4	On door frames	m2	13		
5	On gates (Measured over the full flat area of both sides)	m2	11		
6	On gutters and down pipes	m	14		
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel				
7	On windows with burglar bars	m2	6		
	Carried Forward to Summary of Section No. 5 Section No. 5 BUILDING WORKS - SD3 Bill No. 12 PAINTWORK TASICH CONSULTING			R	

	SECTION SUMMARY - BUILD	DING WORKS - SD3			
Bill No			Page No		Amount
1	EARTHWORKS		76		
2	CONCRETE, FORMWORK AI	ND REINFORCEMENT	78		
3	MASONRY		81		
4	WATERPROOFING		82		
5	ROOF COVERINGS		83		
6	CARPENTRY AND JOINERY		85		
7	IRONMONGERY		87		
8	METALWORK		89		
9	IN SITU FINISHES		90		
10	PLUMBING AND DRAINAGE		94		
11	GLAZING		95		
12	PAINTWORK		96		
	Cartina Na . 5	Carried to Final Summary		R	
	Section No. 5 BUILDING WORKS - SD3				
	TASICH CONSULTING				

ltem No			Quantity	Rate	Amount
	SECTION NO. 6				
	BILL NO. 1				
	WATER SUPPLIES				
	Class 10 HDPe type IV pipes				
1	32mm Pipes laid in and including trenches not exceeding 1m deep	m	50		
2	50mm Pipes laid in and including trenches not exceeding 1m deep	m	150		
	Extra over Class 10 HDPe type IV pipes for fittings				
3	32mm Fittings	No	20		
4	50mm Fittings	No	25		
5	32mm Reducer	No	6		
6	50mm Reducer	No	6		
7	32mm Bend	No	12		
8	50mm Bend	No	12		
9	50mm Threaded adaptor	No	5		
	Galvanised medium steel pipes with screwed and socketed joints				
10	50mm Pipes	m	60		
	Extra over galvanised medium steel pipes with screwed and socketed joints for steel fittings				
11	50mm Fittings	No	4		
12	50mm Bush	No	4		
	Carried Forward			R	
	Section No. 6 EXTERNAL WORKS Bill No. 1 WATER SUPPLY TASICH CONSULTING				

	Brought Forw	ard		R	
13	50mm Elbow	No	4		
	TESTING OF WATER SYSTEM				
14	Testing of water system		Item		
					_
	Carried Forward to Summary of Section No.	o. 6		R	<u> </u>
	Section No. 6 EXTERNAL WORKS Bill No. 1				
	WATER SUPPLY TASICH CONSULTING				
	I ASICH CUNSULTING				

Item No			Quantity	Rate	Amount
	SECTION 6				
	BILL NO 2				
	PAVED WALKWAYS				
	<u>EARTHWORKS</u>				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	400		
2	Stripping average 100mm thick layer of lop soil and stockpiling on site	m2	400		
	<u>Earthworks</u>				
	Open face excavation in earth over sloping site				
3	Open face excavation to form platforms under parking areas, roads, etc and dispose in prescribed stock piles on site "Labour Intensive"	m3	120		
	Extra over trench and hole excavations in earth for				
	excavation:				
4	Soft rock	m3	12		
5	Hard rock	m3	6		
	Extra over all excavations for carting away				
6	Surplus material from stock piles on site to a dumping site to be located by the Contractor "Labour Intensive"	m3	120		
	Carried Forward Section No. 6 EXTERNAL WORKS Bill No. 2 PAVED WALKWAY TASICH CONSULTING			R	

	Brought Forward			R	
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted as specified				
7	Subbase course of G5 material in 150mm layer, compacted to 93% Mod AASHTO density "Labour Intensive"	m3	120		
	Compaction of surfaces				
8	Compaction of ground surface under pavings, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	400		
	Additional tests required by the engineer (Refer to Supplementary Preambles for contractor's tests: SABS 1200)				
9	"Modified AASHTO Density" test	No	10		
	Paving of type 60mm interlocking precast concrete paving blocks with butt joints including 50mm thick river sand bed with sand swept into joints, including preparation of ground or filling				
10	Paving to parking areas etc to falls, including necessary straight edge blocks	m2	400		
	Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/mý				
11	Under paving etc	m2	400		
	Kerbs, etc				
	Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing				
12	Fig 12 kerb with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	380		
	Carried Forward			R	
	Section No. 6 EXTERNAL WORKS Bill No. 2 PAVED WALKWAY TASICH CONSULTING				

	Brought Forward			R	
	STEEL HANDRAILS, BALUSTRADES, ETC				
	Welded handrails to walkways and ramps				
13	Horizontal welded balustrading 1 000mm high formed of $50 \times 50 \times 3$ mm thick square hollow section top and bottom rails, with uprights formed of $50 \times 50 \times 3$ mm thick square hollow section steel at 986mm centres, the balustrading with two cross members formed of $50 \times 25 \times 3$ mm thick hollow section and welded to $75 \times 75 \times 3$ mm thick columns at 1 500mm centres	m	40		
14	Raking welded balustrading 1 000mm high formed of 50 x 50 x 3mm thick square hollow section top and bottom rails, with uprights formed of 50 \times 50 \times 3mm thick square hollow section steel at 986mm centres, the balustrading with two cross members formed of 50 \times 25 \times 3mm thick hollow section and welded to 75 \times 75 \times 3mm thick columns at 1 500mm centres				
		m	8		
15	100 x 100 x 5mm Thick base plate, four times holed and welded to bottom of posts (e/m)	No	19		
16	Extra over last for closed end to 50 x 50mm rails	No	6		
17	M16 x 100mm expansion bolt	No	75		
18	Painting to steel handrails and balustrades (both sides measured)	m2	80		
	Carried Forward to Summary of Section No. 6 Section No. 6 EXTERNAL WORKS Bill No. 2 PAVED WALKWAY TASICH CONSULTING			R	

tem No		Quantity	Rate	Amount
	SECTION NO. 6			
	BILL NO. 3			
	STORMWATER CONTROL			
	SITE CLEARANCE ETC			
	Site clearance			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc m2	300		
	BULK EXCAVATION, FILLING, ETC			
	Excavation in earth			
2	Excavate in earth below natural, reduced or made up ground level , not exceeding 2m deep, to reduced levels under aprons, etc m3	60		
	Extra over bulk excavation in earth for excavation in			
3	Soft rock m3	5		
4	Hard rock m3	2		
	Extra over all excavations for carting away			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor m3	30		
	Keeping excavations free of water			
6	Keeping excavations free of all water other than subterranean water	Item		
	Carried Forward Section No. 6 EXTERNAL WORKS Bill No. 3 STORMWATER CONTROL		R	
	TASICH CONSULTING			

	Brought Forward			R	
	Compaction of surfaces				
7	Re-compaction of disturbed formation levels, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	300		
	Soil poisoning				
8	Treat soil under concrete rain water channels, etc. with an approved insecticide solution at the rate not less than 2 litre per 1 m2	m2	300		
	Unreinforced Concrete				
	25Mpa/19mm concrete				
9	25Mpa/19mm Mass concrete in V-shaped channel 2000mm wide x 75mm thick with rounded salient edges and finished on exposed surfaces with 2: 1 cement mortar, with and including one layer of ref.193 mesh reinforcement, laid to falls in panels not exceeding 2,0m long with 12mm bitumen impregnated sailboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	300		
10	Extra for fair open end	No	10		
11	Extra for fair stopped end	No	10		
12	Extra for angle intersection	No	7		
13	Extra over for forming 100mm thick spreader fanning out to 1200mm width at furthest end with seven (7No) concrete bricks cast in as brick-on-end diffusers in three rows including working off concrete to a smooth finish	No	1		
	Carried Forward to Summary of Section No. 6 Section No. 6 EXTERNAL WORKS Bill No. 3 STORMWATER CONTROL			R	
	TASICH CONSULTING				

Item No			Quantity	Rate	Amount
	SECTION NO. 6				
	BILL NO. 4				
	RAIN WATER TANKS				
	SITE CLEARANCE ETC				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	37		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
2	Trenches	m3	15		
	Extra over trench and hole excavations in earth for excavation in				
3	Soft rock	m3	3		
4	Hard rock	m3	3		
	Extra over all excavations for carting away				
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	4		
	Risk of collapse of excavations				
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	24		
	Keeping excavations free of water				
7	Keeping excavations free of all water other than subterranean water		ltem		
	Carried Forward Section No. 6 EXTERNAL WORKS Bill No. 4			R	
	RAINWATER WATER TANKS TASICH CONSULTING				

	Brought Forward			R	
	Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
8	Backfilling to trenches, holes, etc	m3	8		
	SOIL POISONING				
	Soil poisoning mixed in accordance to supplier's specifications				
9	To bottoms and sides of trenches, etc.	m2	61		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm concrete				
10	Strip footings				
		m3	4		
11	Platform surface beds cast in panels	m3	1		
	FINISHING TOP SURFACE OF CONCRETE				
	Finishing top surfaces of concrete smooth with a wood float/steel trowel				
12	Surface beds, slabs, etc (rainwater tanks)	m2	12		
	REINFORCEMENT				
	Fabric reinforcement				
13	Type 295 fabric reinforcement in concrete surface beds, slabs, etc	m2	12		
	Carried Forward Section No. 6			R	_
	EXTERNAL WORKS Bill No. 4				
	RAINWATER WATER TANKS TASICH CONSULTING				

	Brought Forward			R	
	TEST CUBES				
14	Allow for preparing a set of three concrete strength test cubes, each size $150 \times 150 \times 150$ mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	6		
	BRICKWORK				
	Brickwork of NFP bricks in class II mortar				
15	One brick walls				
		m2	16		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
16	150mm Wide reinforcement built in horizontally	m	81		
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
17	Extra over brickwork for face brickwork	m2	6		
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R3 500,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
18	Coping on top of one brick wall	m	24		
	WATERPROOFING				
	One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course				
19	In walls	m2	6		
	Carried Forward			R	
	Section No. 6 EXTERNAL WORKS Bill No. 4 RAINWATER WATER TANKS TASICH CONSULTING			K	

	Brought Forward			R	
	One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
20	Under surface beds	m2	12		
	WATER SUPPLIES				
	"Jojo" or equal approved SANS PVC water tanks				
21	5 000 Litre Litre polyethylene remoulded vertical water storage tank complete with lid, fitted with and including 15mm brass bi btap (Type 108LK15, elsewhere measured) with suitable adaptor and setting in position on concrete tank stand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire embedded into concrete and including a "do not drink" sticker (Note: tanks to be filled with water before Practical Completion).	No	3		
22	Hole through top of tank lid for 100mm diameter pipe.	No	3		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6 EXTERNAL WORKS Bill No. 4 RAINWATER WATER TANKS TASICH CONSULTING				

Item No			Quantity	Rate	Amount	
	SECTION NO. 6					
	BILL NO. 5					
	WATER TANKS AND TANKS STANDS					
	Excavation in earth not exceeding 2m deep					
1	Holes	m3	8			
	Extra over trench and hole excavations in earth for excavation in					
2	Soft rock	m3	1			
3	Hard rock	m3	1			
	Extra over all excavations for carting away					
4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	8			
	Risk of collapse of excavations					
5	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	34			
	Keeping excavations free of water.					
6	Keeping excavations free of water.		Item			
	Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 93 % Mod AASHTO density					
7	Backfilling to trenches, holes, etc.	m3	2			
	Soil insecticide					
8	To bottoms and sides of trenches, etc.	m2	34			
	Carried Forward Section No. 6 EXTERNAL WORKS Bill No. 5 WATER TANK STANDS TASICH CONSULTING			R		_

	Brought Forward			R	
	25Mpa/19mm Concrete				
9	Blinding	m3	0.4		
10	Bases	m3	8		
	Finishing top surfaces of concrete smooth with a wood float				
11	On top of bases	m2	8		
	Carpentry				
12	140mm wood block	No	24		
	"Jojo" or equal approved SANS PVC water tanks				
13	10 000 Litre plastic water tank fitted onto and secured to tank platforms	No	2		
	Structural Steel				
	Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete				
14	80 x 80mm x 6mm Angle-section	t	2.06		
	Welded beams in single lengths with flat bearer and connection plates, bolted to steel				
15	40 x 40mm x 6mm Angle -section	t	0.82		
16	40 x 40mm x 3mm Angle -section	t	0.83		
17	125 x 50 x 20 x 2mm Lipped channel-section	t	0.79		
18	125 x 75 x 8mm Flat-section	t	0.63		
19	30 x 6mm Flat-section	t	0.30		
	Bolts to columns, beams, etc				
20	High tensile bolts	kg	500		
	Carried Forward Section No. 6 EXTERNAL WORKS Bill No. 5 WATER TANK STANDS TASICH CONSULTING			R	

	Brought Forward	ı [1	R	
	Spot priming bare metal surfaces with zinc chromate primer an applying one undercoat and 2 coats alkyd enamel paint in colours which have a value of 7 or less on the Munsell system in accordance with SABS 1091 on previously painted steel in bad condition				
21	Paint to structural steel	m2	155		
	Carried Forward to Summary of Section No. 6 Section No. 6 EXTERNAL WORKS Bill No. 5 WATER TANK STANDS TASICH CONSULTING			R	

Item No			Quantity	Rate	Amount
	SECTION NO. 6				
	BILL NO. 6				
	THE FOLLOWING IN RAMPS				
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
1	Ramp	m3	4		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
2	Under floors, steps, pavings, etc.	m3	3		
	UNREINFORCED CONCRETE, ETC				
	25Mpa/19mm Concrete				
3	Ramp	m3	1		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float				
4	Aprons and pavings to falls	m2	11		
	<u>FOUNDATIONS</u>				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
5	One brick walls	m2	8		
	FACE BRICKWORK				
	Carried Forward Section No. 6 EXTERNAL WORKS Bill No. 6 RAMP TASICH CONSULTING			R	

	Brought Forward			R	
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush				
	horizontal and vertical joints				
6	Extra over brickwork for face brickwork in foundation	m2	8		
	STEEL HANDRAILS, BALUSTRADES, ETC				
	Welded handrails to walkways and ramps				
7	Horizontal welded balustrading 1 000mm high formed of 50 x 50 x 3mm thick square hollow section top and bottom rails, with uprights formed of 50 x 50 x 3mm thick square hollow section steel at 986mm centres, the balustrading with two cross members formed of 50 x 25 x 3mm thick hollow section and welded to 75 x 75 x 3mm thick columns at 1 500mm centres		5		
		m	3		
8	100 x 100 x 5mm Thick base plate, four times holed and welded to bottom of posts (e/m)	No	2		
9	Extra over last for closed end to 50 x 50mm rails	No	5		
10	M16 x 100mm expansion bolt	No	19		
11	Painting to steel handrails and balustrades (both sides measured)	m2	15		
	Carried Forward to Summary of Section No. 6 Section No. 6 EXTERNAL WORKS Bill No. 6 RAMP TASICH CONSULTING			R	

Item No			Quantity	Rate	Amount
	SECTION NO. 6				
	BILL NO. 7				
	DRILLING OF BOREHOLE				
	Drilling of New Borehole				
	Mobilisation, plant set-up, inter-borehole moves and de- mobilisation				
1	Site Establishment	No	1		
2	Mobilisation and set up of plant to/at first borehole	No	1		
	Drilling: unconsolidated and consolidated sediments and igneous and metamorphic rocks				
	Rotary air percussion				
3	165mm diameter	m	100		
4	254mm diameter	m	50		
	Odex drilling, including supply, delivery and installation of at least 6mm sidewall Odex casing:				
5	165mm diameter	m	20		
6	254mm diameter	m	20		
	Casing, including supply, delivery and installation, but not including reaming				
	Steel casing (plain)				
7	165mm (state wall thickness here as 3 mm)	m	250		
8	Reaming	m	60		
9	Formation stabilizer	kg	1		
	Carried Forward			R	
	Section No. 6 EXTERNAL WORKS Bill No. 7 BOREHOLE DEVELOPMENT TASICH CONSULTING				

	Brought Forward			R	
10	Concrete collar, complete per borehole	No	1		
11	Normal Sanitary seal, complete per borehole	m	1		
12	Data recording and reporting, complete per borehole	No	1		
13	Borehole development	Hrs	2.00		
	PUMPS AND PIPING				
	Submersible pumpset and appurtenant fittings as mar specification				
14	Submersible pump with a duty of: Total head of 40m and flow of 1.6l/s complete with integral non-return valve, flow inducer (cooling) sleeve, complete with a suitable electric motor and automatic control box	No	1		
	Class 10 HDPe type IV pipes				
15	40mm Pipes laid in and including trenches not exceeding 1m deep	m	150		
	Extra over Class 10 HDPe type IV pipes for fittings				
16	40mm pressed steel base plate with 26mm diameter hole drilled for dipper tube	No	1		
17	40mm DN MGI barrel nipple	No	8		
18	40mm DN x 90° MGI female elbow	No	1		
19	40 x 25 DN MGI reducing socket	No	1		
20	25mm DN 'Invensys' / 'Kent' domestic water meter (refer to plan HSD1001)	No	1		
21	40 x 25 DN MGI reducing bush	No	1		
22	40mm cobra brass Ball valve	No	12		
	Carried Forward Section No. 6 EXTERNAL WORKS Bill No. 7 BOREHOLE DEVELOPMENT TASICH CONSULTING			R	

	Brought Forward			R	
	Booster pump and appurtenant items				
23	Supply and install a booster pump complete with control box and lockable steel pump cage with the followings specifications: Flow (Q)=2.3l/s; Total dynamic head=45m	No	1		
	Submersible pumpset				
24	Submersible pumpset and appurtenant fittings as per manufacturer specifications	No	1		
	Lockable steel cage				
25	Lockable steel cage for booster borehole	No	1		
	ELECTRICAL PUMP CONTROL PANEL (AUTOMATIC)				
	Single Phase Control Panel: 0 - 5.6kw				
	Switch Gear				
26	60 Amp T/Pole Isolator ABB 5Ka	No	1		
27	60 Amp S/Pole Earth Leakage ABB 5Ka	No	1		
28	20 Amp T/Pole Circuit Breaker ABB 3Ka	No	1		
29	25 Amp S/Pole C/B ABB 5Ka	No	1		
30	Surge arrestor ABB	No	1		
	Wires and accessories				
31	Wires and accessories			SUM	
32	Pin Lugs 4mm2 Yellow	m	12		
33	Self Trapping Screws		Item		
	Control gear				
34	1 x Float switch	No	1		
	Carried Forward Section No. 6 EXTERNAL WORKS Bill No. 7 BOREHOLE DEVELOPMENT TASICH CONSULTING			R	

	Brought Forward			R	
35	1000mm long x 22mm dia galvanised pipes	No	4		
36	Captire	No	1		
37	20mm Ø CCG Box	No	1		
38	Bends Bosal	No	4		
39	Coupling Bosal 20mm	No	5		
40	Bolts M 8 x 25mm nut & washer	No	1		
		INO	'		
41	Connector strip 5 Amp	No	1		
42	Connector strip 30 Amp	No	1		
	Testing and commissioning				
43	Testing, commissioning and issue COC			SUM	
	Carried Forward to Summary of Section No. 6			R	_
	Section No. 6 EXTERNAL WORKS				
	BIII No. 7 BOREHOLE DEVELOPMENT				
	TASICH CONSULTING				

	SECTION SUMMARY - EXTERNAL	.WORKS				
Bill No			Page No		Amount	
1	WATER SUPPLY		99			
2	PAVED WALKWAY		102			
3	STORMWATER CONTROL		104			
4	RAINWATER WATER TANKS		108			
5	WATER TANK STANDS		111			
6	RAMP		113			
7	BOREHOLE DEVELOPMENT		117			
	_					
	Section No. 6	ied to Final Summary		R		_
	EXTERNAL WORKS TASICH CONSULTING					
		l		l l	ı l	

Item No		Quantity	Rate	Amount
	SECTION NO.7			
	PROVISIONAL SUMS			
	All the provisional sums cover supply of material and equipment and installation where applicable by firms of specialists.			
	Provisional sums are net and do not include builder's discount, but the Tenderer may allow under "Profit" items any profit he considers necessary.			
	The Tenderer is referred to Clause 87.1 and 87.2 in the "Preliminaries" section for the definition and adjustment of "General Attendance".			
	N.B ALL PROVISIONAL WORKS ARE SUBJECT TO RE-MEASUREMENTS. THE PROVISIONAL WORK SHALL BE PAID AS PER THE WORK DONE			
	Allow for Reverse Osmosis Treatment Plant			
1	Provide an amount of R350 000.00 (Three Hundred and Fifty Thousand and zero cents) NET for reverse osmosis plant	Item		350 000.00
2	Add: Profit		%	
3	Add: Attendance		%	
	Carried to Final Summary		R	
	Section No. 7 PROVISIONAL SUMS Bill No. 1 Provisional sums TASICH CONSULTING			

	FINAL SUMMARY			
Section No		Page No		Amount
1	PRELIMINARIES & GENERALS	28		
2	ALTERATIONS AND DEMOLITIONS	30		
3	BUILDING WORKS - M2	51		
4	BUILDING WORKS - F4	73		
5	BUILDING WORKS - SD3	97		
6	EXTERNAL WORKS	118		
7	PROVISIONAL SUMS	119		
	SUB TOTAL (A)		R	
	Provide 10% (TEN PERCENT) on Sub-total (A) as			
	contingency to be deducted in whole or in part if not required			
			R	
	SUB TOTAL (B)		R	
	Add Value Added Tax @ 15%		R	
	Carried to Form of Tender		R	
	TASICH CONSULTING			
		I		