

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u>			
	<u>BILL NO. 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	<u>Principal Building Agreement Code 2101 Edition 4.1 March 2005 (including State Provisions)</u>			
	<u>AND PRELIMINARIES Code 2103 May 2005</u>			
	<u>PRELIMINARIES NOTES</u>			
	i) The agreement is to be the JBCC Series 2000 Principal Building Agreement, Edition 4.1 May 2005, and other contract documents that together form the contract between the employer and contractor			
	ii) The preliminaries are to be the JBCC Series 2000 Code 2103 Preliminaries prepared by the Joint Building Contracts Committee, May 2005 edition and shall be deemed to be incorporated herein			
	iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary			
	iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading			
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<p style="text-align: right;">Brought Forward</p> <p>v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")</p> <p>vi) 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, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time</p> <p style="text-align: center;">-----</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries Re-Solve Consulting</p>		R	

	Brought Forward		R	
	<u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>			
	<u>Definitions (A1)</u>			
1/1/1	Definitions and interpretation (clause 1)	Item		
	<u>Objective and Preparation (A2 to A14)</u>			
1/1/2	Offer acceptance and performance (clause 2)	Item		
1/1/3	Documents (clause 3)	Item		
1/1/4	Design responsibility (clause 4)	Item		
1/1/5	Employer's agents (clause 5)	Item		
1/1/6	Site representative (clause 6)	Item		
1/1/7	Compliance with regulations (clause 7)	Item		
1/1/8	Works risk (clause 8)	Item		
1/1/9	Indemnities (clause 9)	Item		
1/1/10	Works insurances (clause 10)	Item		
1/1/11	Liability insurances (clause 11)	Item		
1/1/12	Effecting insurance (clause 12)	Item		
1/1/13	NO CLAUSE 13.	N/A		
1/1/14	Security (clause 14)	Item		
	<u>Execution (A15-A23)</u>			
1/1/15	Preparation for and execution of the works (clause 15)	Item		
1/1/16	Access to the works (clause 16)	Item		
1/1/17	Contract instructions (clause 17)	Item		
	Carried Forward		R	
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	Brought Forward		R
1/1/18	Setting out of the works (clause 18)	Item	
1/1/19	Assignment (clause 19)	Item	
1/1/20	Nominated subcontractors (clause 20)	Item	
1/1/21	Selected subcontractors (clause 21)	Item	
1/1/22	Employer's Direct Contractors (clause 22)	Item	
1/1/23	Contractor's Domestic Sub-Contractors (Clause 23)	Item	
	<u>Completion (A24-A30)</u>		
1/1/24	Practical completion (clause 24)	Item	
1/1/25	Works completion (clause 25)	Item	
1/1/26	Final completion (clause 26)	Item	
1/1/27	Latent defects liability period (clause 27)	Item	
1/1/28	Sectional completion (clause 28)	Item	
1/1/29	Revision of date of practical completion (clause 29)	Item	
1/1/30	Penalty for non-completion (clause 30)	Item	
	<u>Payment (A31 - A35)</u>		
1/1/31	Interim payment to the contractor (clause 31)	Item	
1/1/32	Adjustment to the contract value (clause 32)	Item	
1/1/33	Recovery of expense and loss (clause 33)	Item	
1/1/34	Final account and final payment (clause 34)	Item	
1/1/35	Payment to other parties (clause 35)	Item	
	Carried Forward		R
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	Brought Forward		R
	<u>Cancellation (A36-A39)</u>		
1/1/36	Cancellation by employer - contractor's default (clause 36)	Item	
1/1/37	Cancellation by employer - loss and damage (clause 37)	Item	
1/1/38	Cancellation by contractor - employer's default (clause 38)	Item	
1/1/39	Cancellation - cessation of the works (clause 39)	Item	
	<u>Dispute (A40)</u>		
1/1/40	Dispute Settlement (clause 40)	Item	
	<u>Substitute Provisions (A41)</u>		
1/1/41	State clauses (Clause 41)	Item	
	<u>THE SCHEDULE</u>		
	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder		
1/1/42	Pre-tender information (clause 42)	Item	
	<u>42.1 CONTRACTING AND OTHER PARTIES</u>		
	42.1.1 Employer: THE MVULA TRUST		
	42.1.2 Principal Agent: RE-SOLVE CONSULTING		
	Carried Forward		R
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Brought Forward	R	
42.2.8 For the works in sections : Intended date of practical completion and the penalty per calender day		
N/a		
42.2.9 The law applicable to this agreement shall be that of		
<i>South Africa (country)</i>		
<u>42.3 INSURANCES</u>		
42.3.1 Contract works insurance to be effected by: Contractor: For the Sum of R Contract Amount + 10.00 % With a deductible of - to be determined by the contractor		
42.3.2 Supplementary insurance is required		
No		
42.3.3 Public liability insurance to be effected by:Contractor: For the Sum of R 5 000 000-00 With a deductible of - to be determined by the contractor		
<u>42.4 DOCUMENTS</u>		
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" .		
Carried Forward	R	
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<p style="text-align: right;">Brought Forward</p> <p>42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days</p> <p style="text-align: right;">5 working days</p> <p>42.4.5 JBCC Engineering General Conditions are to be included in the contract documents:</p> <p style="text-align: right;"><i>No</i></p> <p>42.4.6 The contract value is to be adjusted using escalation adjustment indices</p> <p><i>No</i></p> <p>42.4.7 Details of changes made to the provision of JBCC standard documentation: [An addendum is to be attached should the space provided be insufficient]</p> <p style="text-align: right;">Part 1 -Contract Data completed by Employer</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries Re-Solve Consulting</p>		R	

	Brought Forward		R	
	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definitions and interpretation (B1)</u>			
1/1/43	Definition and interpretation (B1.1 - B1.4.6)	Item		
	<u>Documents (B2)</u>			
1/1/44	Checking of documents (B2.1)	Item		
1/1/45	Provisional bills of quantities (B2.2)	Item		
1/1/46	Availability of construction documentation (B2.3)	Item		
1/1/47	Interests of agents (B2.4)	Item		
1/1/48	Priced documents (B2.5)	Item		
1/1/49	Tender submission (B2.6)	Item		
	<u>The site (B3)</u>			
1/1/50	Defined works area (B3.1)	Item		
1/1/51	Geotechnical investigation (B3.2)	Item		
1/1/52	Inspection of the site (B3.3)	Item		
1/1/53	Existing premises occupied (B3.4)	Item		
1/1/54	Previous work - dimensional accuracy (B3.5)	Item		
1/1/55	Previous work - defects (B3.6)	Item		
1/1/56	Services - known (B3.7)	Item		
1/1/57	Services - unknown (B3.8)	Item		
1/1/58	Protection of trees etc (B3.9)	Item		
1/1/59	Articles of value (B3.10)	Item		
1/1/60	Inspection of adjoining properties etc (B3.11)	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>Management of contract (B4)</u>			
1/1/61	Management of the works (B4.1)	Item		
1/1/62	Programme for the works (B4.2)	Item		
1/1/63	Progress meetings (B4.3)	Item		
1/1/64	Technical meetings (B4.4)	Item		
1/1/65	Labour and Plant records (B4.5)	Item		
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>			
1/1/66	Samples of materials (B5.1)	Item		
1/1/67	Workmanship samples (B5.2)	Item		
1/1/68	Shop drawings (B5.3)	Item		
1/1/69	Compliance with Manufacturer's Instructions (B5.4)	Item		
	<u>Temporary works and plant (B6)</u>			
1/1/70	Deposits and fees (B6.1)	Item		
1/1/71	Enclosure of the works (B6.2)	Item		
1/1/72	Advertising (B6.3)	Item		
1/1/73	Plant, equipment, sheds and offices (B6.4)	Item		
1/1/74	Main notice board (B6.5)	Item		
1/1/75	Subcontractors' notice board (B6.6)	Item		
	<u>Temporary services (B7)</u>			
1/1/76	Location (B7.1)	Item		
1/1/77	Water (B7.2)	Item		
	Option [A] shall apply			
	Carried Forward		R	
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	Brought Forward		R	
1/1/78	Electricity (B7.3) Option [A] shall apply	Item		
1/1/79	Telecommunication facilities (B7.4)	Item		
1/1/80	Ablution facilities (B7.5) Option [A] shall apply	Item		
	<u>Prime cost amounts (B8)</u>			
1/1/81	Responsibility for prime cost amounts (B8.1)	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
1/1/82	General attendance (B9.1)	Item		
1/1/83	Special attendance (B9.2)	Item		
1/1/84	Commissioning - Fuel, water and power (B9.3)	Item		
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1)	Item		
1/1/85	Payment of preliminaries (B10.2) Option [B] shall apply	Item		
1/1/86	Adjustment of preliminaries (B10.3) Option [A] shall apply	Item		
1/1/87	Payment certificate cash flow (B10.4)	Item		
	<u>General (B11)</u>			
1/1/88	Protection of works (B11.1)	Item		
1/1/89	Protection/isolation of existing/sectionally occupied works (B11.2)	Item		
1/1/90	Security of the Works (B11.3)	Item		
1/1/91	Notice before covering work (B11.4)	Item		
	Carried Forward		R	
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	Brought Forward		R	
1/1/92	Disturbance (B11.5)	Item		
1/1/93	Environmental Disturbance (B11.6)	Item		
1/1/94	Works cleaning and clearing (B11.7)	Item		
1/1/95	Vermin (B11.8)	Item		
1/1/96	Overhand work (B11.9)	Item		
1/1/97	Instruction manuals and guarantees (B11.10)	Item		
1/1/98	As built information (B11.11)	Item		
1/1/99	Tenant Installations (B11.12)	Item		
	<u>Schedule of variables (B12)</u>			
1/1/100	Pre-tender information (B12.1)	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:			
	<i>No</i>			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete			
	<i>No</i>			
	12.1.3 Interest of agents (B2.4)			
	.			
	12.1.4 Defined works area (B3.1)			
			
	12.1.5 Geotechnical investigation (B3.2)			
	N/a			
	Carried Forward		R	
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Brought Forward		R	
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			
Carried Forward Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries Re-Solve Consulting		R	

<p style="text-align: right;">Brought Forward</p> <p>12.1.11 Inspection of adjoining properties (B3.11)</p> <p>??</p> <p>.....</p> <p>.....</p> <p>12.1.12 Enclosure of the works (B6.2)</p> <p>??</p> <p>.....</p> <p>.....</p> <p>12.1.13 Offices (B6.4.3)</p> <p>Specific requirements: The contractor shall provide, maintain and remove, on completion of the works, an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times</p> <p>12.1.14 Main notice board (B6.5)</p> <p>Yes</p> <p>12.1.15 Subcontractors notice board (B6.6)</p> <p>A notice board is required</p> <p style="text-align: right;">Yes</p> <p>12.1.16 Water (B7.2)</p> <p>Alternative Selected: A</p> <p>12.1.17 Electricity (B7.3)</p> <p>Alternative selected: A</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries Re-Solve Consulting</p>		<p>R</p>	
		R	

<p style="text-align: right;">Brought Forward</p> <p>12.1.18 Telecommunications (B7.4)</p> <p>12.1.19 Ablution facilities (B7.5) Alternative selected: A</p> <p>12.1.20 Protection of existing/sectionally occupied works (B11.2)</p> <p>12.1.21 Special attendance (B9.2) Subcontractor (1) details: N/a</p> <p>12.1.22 Protection of the works (B11.1)</p> <p>12.1.23 Disturbance (B11.5)</p> <p>12.1.24 Environmental Disturbance (B11.6)</p> <p><u>Post tender information (B12.2)</u></p> <p>12.2.1 Payment of preliminaries Alternative selected: B</p> <p>12.2.2 Adjustment of preliminaries Alternative selected: A</p> <p>12.2.3 Additional agreed preliminaries items N/a</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries Re-Solve Consulting</p>		<p>R</p>	
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Brought Forward

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SECTION C: SPECIFIC PRELIMINARIES??

Any special items to meet the partricular 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

1/1/101

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:..... V:..... T:.....

Item

1/1/102

Black economic empowerment and training

F:..... V:..... T:.....

Item

1/1/103

Proprietary branded products

F:..... V:..... T:.....

Item

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1/1/104 **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:.....

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

Item

1/1/105 **Contract instructions**

F:..... V:..... T:.....

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

Item

1/1/106 **Labour record**

F:..... V:..... T:.....

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

Item

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1/1/107 **Plant record**

F:..... V:..... T:.....

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

Item

1/1/108 **Guarantees**

F:..... V:..... T:.....

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

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1/1/109

Overtime

F:..... V:..... T:.....

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

Item

1/1/110

Co-operation of contractor for cost management

F:..... V:..... T:.....

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

Item

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Occupational Health and Safety Specification

F:..... V:..... T:.....

The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.

The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance.

The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.

The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines. It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under this clause and the specific related clauses hereafter and no additional claims in this regard shall be entertained.

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	Brought Forward		R	
1/1/112	Occupational Health and Safety Specification F:..... V:..... T:..... Preparation of contractor's site specific health and safety plan, including compliance with Covid-19 legislation, regulations and guidelines	Item		
1/1/113	Occupational Health and Safety Specification F:..... V:..... T:..... Principal contractor's initial obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc	Item		
1/1/114	Occupational Health and Safety Specification F:..... V:..... T:..... Principal contractor's time related obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc	Item		
1/1/115	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of reflective vests	Item		
1/1/116	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of hard hats	Item		
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	Brought Forward		R	
1/1/117	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of protective footwear	Item		
1/1/118	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of earplugs	Item		
1/1/119	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of dust masks	Item		
1/1/120	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of gloves	Item		
1/1/121	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of high visibility overalls to SARTSM Chapter 13 Level 3	Item		
1/1/122	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of SANS approved ear defenders	Item		
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1/1/123	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of face masks (Covid -19)	Item		
1/1/124	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of face shields (Covid -19)	Item		
1/1/125	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of gloves (Covid -19)	Item		
1/1/126	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of hand sanitiser (min 70% alchohol), foot press stands and paper towels (Covid -19)	Item		
1/1/127	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)	Item		
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	Brought Forward		R	
1/1/128	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of digital infrared non-contact body thermometer (Covid -19, minimum of two per site entrance)	Item		
1/1/129	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)	Item		
1/1/130	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of signage, including Covid -19 related signage	Item		
1/1/131	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of full time construction health and safety officer (SACPCMP Registered)	Item		
1/1/132	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations	Item		
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	Brought Forward		R	
1/1/133	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Medical screenings, examinations, etc in terms of Covid-19 regulations	Item		
1/1/134	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Induction training, including Covid-19 training	Item		
1/1/135	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of first aid boxes to GSR requirements	Item		
1/1/136	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc	Item		
1/1/137	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Submission of health and safety file	Item		
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1/1/138

HIV/AIDS Awareness

F:..... V:..... T:.....

It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.

The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

Item

R

Carried to Final Summary

Section No. 1
Section 1 - Preliminaries and General
Bill No. 1
Preliminaries
Re-Solve Consulting

R

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>View site</u>			
	Before submitting his tender the contractor 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 contained in the buildings or portions of the buildings to be demolished. 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 demolition.			
	<u>General</u>			
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent. Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent. Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing			
	Carried Forward		R	
	Section No. 2 Section 2 - Alterations Bill No. 1 ALTERATIONS Re-Solve Consulting			

[illegible]

Brought Forward			R	
<u>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</u>				
<u>Soil poisoning</u>				
<u>Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent</u>				
<u>SITE CLEARANCE ETC</u>				
<u>Site clearance</u>				
3/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	78	
3/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	78	
<u>EXCAVATION, FILLING, ETC</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
3/1/3	Trenches	m3	21	
3/1/4	Thickening under aprons	m3	0.5	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
3/1/5	Soft rock	m3	1	
3/1/6	Hard rock	m3	1	
Carried Forward			R	
Section No. 3 Section 3 - Staff Combined Block Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting				

Brought Forward				R
<u>Extra over all excavations for carting away</u>				
3/1/7	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	12	
<u>Risk of collapse of excavations</u>				
3/1/8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	64	
<u>Keeping excavations free of water</u>				
3/1/9	Keeping excavations free of all water other than subterranean water		Item	
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
3/1/10	Under floors, steps, paving, etc	m3	11	
3/1/11	Backfilling to trenches, holes, etc	m3	9	
<u>Compaction of surfaces</u>				
3/1/12	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	70	
3/1/13	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 (Enviro Loo Tanks Pit)	m2	5	
3/1/14	Ditto but to bottom of trenches and bases	m2	28	
<u>Prescribed density tests on filling</u>				
3/1/15	Modified AASHTO Density	No	4	
<u>SOIL POISONING</u>				
Carried Forward				R
Section No. 3 Section 3 - Staff Combined Block Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting				

Brought Forward			R
	<u>Weedkiller mixed in accordance to supplier's specifications</u>		
3/1/16	To bottoms and sides of trenches, etc.	m2	92
3/1/17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	104
	<u>Soil insecticide</u>		
3/1/18	To bottoms and sides of trenches etc	m2	92
3/1/19	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	78
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Section 3 - Staff Combined Block			
Bill No. 1			
EARTHWORKS(PROVISIONAL)			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BILL NO. 2</u>				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>UNREINFORCED CONCRETE, ETC.</u>				
<u>15MPa/19mm concrete</u>				
3/2/1	Surface blinding under footings and bases	m3	1	
3/2/2	Aprons cast in panels to falls	m3	3	
3/2/3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc	m	28	
3/2/4	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	25	
<u>25MPa/19mm concrete</u>				
3/2/5	Strip footings	m3	7	
3/2/6	Ramps	m3	5	
<u>REINFORCED CONCRETE</u>				
<u>25MPa/19mm concrete</u>				
3/2/7	Surface beds cast in panels on waterproofing.	m3	4	
Carried Forward				R
Section No. 3 Section 3 - Staff Combined Block Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Re-Solve Consulting				

Brought Forward			R
<u>TEST CUBES</u>			
3/2/8	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith	Sets	4.0
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>			
3/2/9	Surface beds, slabs, etc	m2	78
3/2/10	Aprons to falls	m2	26
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
<u>Rough formwork to sides</u>			
3/2/11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	28
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Fabric Reinforcement</u>			
3/2/12	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	70
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Section 3 - Staff Combined Block			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Re-Solve Consulting			

Brought Forward			R
<u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
3/3/2	Extra over brickwork for face brickwork in foundations	m2	6
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
3/3/3	Half brick walls	m2	5
3/3/4	Half brick walls in beamfilling	m2	6
3/3/5	One brick walls	m2	80
<u>FACE BRICKWORK</u>			
3/3/6	Extra over brickwork for face brickwork	m2	69
3/3/7	Extra over brickwork for brick-on-edge header course lintel	m	11
3/3/8	220mm Wide sill set sloping and slightly protecting outside	m	11
3/3/9	Fair cutting fitting around pipe not exceeding 100mm	No	9
3/3/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	3
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
3/3/11	75mm Wide reinforcement built in horizontally	m	5
3/3/12	150mm Wide reinforcement built in horizontally	m	120
<u>Galvanised wire ties etc</u>			
3/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	28
Carried Forward			R
Section No. 3 Section 3 - Staff Combined Block Bill No. 3 MASONRY Re-Solve Consulting			

Brought Forward			R
<u>Turning pieces to lintels etc.</u>			
3/3/14	230mm Wide turning pieces	m	7
<u>Prestressed fabricated lintels</u>			
3/3/15	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	22
<u>Air bricks etc.</u>			
3/3/16	230 x 152mm terra-cotta vermin proofed louvered air brick	No	4
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Section 3 - Staff Combined Block			
Bill No. 3			
MASONRY			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
3/4/1	In walls	m2	74	
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
3/4/2	Under surface beds	m2	99	
3/4/3	Under aprons and ramps	m2	5	
	<u>FLOOR AND WALL SEALERS</u>			
	<u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>			
3/4/4	Around steel windows and door frames	m	16	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3			
	Section 3 - Staff Combined Block			
	Bill No. 4			
	WATERPROOFING			
	Re-Solve Consulting			

Item No		Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BILL NO.5</u>				
<u>ROOF COVERINGS ETC</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>				
3/5/1	Roof covering with pitch not exceeding 25 degrees	m2	44	
<u>ROOF AND WALL INSULATION</u>				
3/5/2	12" Thermal resistance sisalition laid on purlins	m2	44	
<u>RAINWATER DISPOSAL</u>				
<u>Aluminium Zinc Seamless Gutters</u>				
3/5/3	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	10	
3/5/4	Extra over eaves gutter for stopped end	No	2	
3/5/5	75 x 100mm Diameter rainwater down pipes fixed to wall	m	6	
3/5/6	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2	
3/5/7	Ditto .for shoe	No	2	
Carried Forward to Summary of Section No. 3				R
Section No. 3 Section 3 - Staff Combined Block Bill No. 5 ROOF COVERINGS ETC Re-Solve Consulting				

Brought Forward			R
3/6/3	Take delivery temporary store hoist in position and erect plate nailed timber roof trusses purlins gangboarding temporary and permanent bracing etc (measured on slope of roof)	Item	
<u>Sawn softwood</u>			
<u>Sundries</u>			
3/6/4	Two coats creosote on sawn timbers	m2	44
3/6/5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	28
3/6/6	Hurricane clips	No	28
<u>EAVES, VERGES, ETC</u>			
<u>Pressed fibre-cement:</u>			
3/6/7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	28
<u>DOORS, ETC</u>			
<u>Wrought meranti doors hung to steel frames</u>			
3/6/8	44mm framed, ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	2
3/6/9	44mm framed, ledged and braced door 813 x 1914mm high (door raised by 150mm from bottom) (D2)	No	3
3/6/10	44mm framed, ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	2
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Section 3 - Staff Combined Block			
Bill No. 6			
CARPENTRY AND JOINERY			
Re-Solve Consulting			

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Brought Forward			R
<u>ASSA ABLOY</u>			
3/7/6	38mm Diameter rubber door stop plugged	No	5
<u>Vaal Paragon</u>			
3/7/7	32mm Type 9 back grab rail 800mm long plugged	No	2
3/7/8	32mm Type 8 side grab rail 900mm girth plugged	No	2
<u>LETTERS, NAMEPLATES, ETC</u>			
<u>Dorma:</u>			
3/7/9	DSS-130 Engraved "Male" information sign, plugged	No	1
3/7/10	DSS-130 Engraved "Female" information sign, plugged	No	1
3/7/11	DSS-133 Engraved "Disabled" information sign, plugged	No	1
<u>BATHROOM FITTINGS</u>			
<u>Sundries</u>			
<u>Kimberley-Clark or Similar</u>			
3/7/12	SQ2 code 405607B white none lockable toilet roll holder	No	5
<u>stainless Steel</u>			
3/7/13	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	4
3/7/14	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc	No	4
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Section 3 - Staff Combined Block			
Bill No. 7			
IRONMONGERY			
Re-Solve Consulting			

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Brought Forward			R
<u>Nty steel or similar approved school windows with standard burglar bars formed of 20 x 5mm thick flat bars to all sashes</u>			
3/8/6	Window type NE1, size 533 x 654mm high	No	8
3/8/7	Window type NE7, size 1022 x 654mm high	No	3
<u>Sundries</u>			
<u>Cage, etc</u>			
3/8/8	She bin cages, to fit 330 x 280 x 180mm width, she bin to be able to open, including pad lock and locking mechanism, complete, etc	No	4
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Section 3 - Staff Combined Block			
Bill No. 8			
METALWORK			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SANITARY FITTINGS</u>			
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497</u>			
3/10/1	Vaal semi close suite with 90 degree wash down pan (code VAA-772402WH) and matching vandal proof 6 litre Hibiscus cistern complete with front flush push button, lid, fitments and heavy duty solid white double flap toilet seat	No	3	
3/10/2	"Flatback" wall urinal with spreader and waste union including approved urinal flush valve	No	3	
3/10/3	Vaal "Pearl Paraplegic" semi close couple boxed suite with 90 degree washdown pan (code VAA-730103WH) and matching vandal proof 6 litre purpose made cistern complete with side-flush lever and purpose made urea seat, lid, fitments and heavy duty solid white double flap toilet seat, including F14C cranked rail and F16C cistern rail.	No	1	
3/10/4	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	6	
	<u>SOIL DRAINAGE</u>			
	<u>uPVC pipes</u>			
3/10/5	110mm Pipes laid in and including trenches not exceeding 1m deep	m	32	
	Carried Forward		R	
	Section No. 3 Section 3 - Staff Combined Block Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting			

Brought Forward				R
<u>Extra over uPVC pipes for fittings</u>				
3/10/6	110mm Bend	No	8	
3/10/7	110mm Junction	No	8	
<u>uPVC gulleys</u>				
3/10/8	110mm Gully not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	8	
<u>TRAPS ETC</u>				
<u>Marley</u>				
3/10/9	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	6	
<u>TAPS, VALVES, ETC</u>				
3/10/10	15mm gate valve plugged	No	9	
3/10/11	15mm elbow action tap plugged	No	2	
<u>SANITARY PLUMBING</u>				
<u>uPVC pipes</u>				
3/10/12	50mm Pipes	m	90	
<u>Extra over uPVC pipes for fittings</u>				
3/10/13	50mm Bend	No	18	
3/10/14	50mm Access bend	No	18	
3/10/15	50mm Junction	No	18	
<u>WATER SUPPLIES</u>				
<u>Class 0 copper pipes</u>				
3/10/16	15mm Pipes	m	130	
Carried Forward				R
Section No. 3 Section 3 - Staff Combined Block Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting				

Brought Forward			R
3/10/17	22mm Pipes	m	120
<u>Extra over class 0 copper pipes for capillary fittings</u>			
3/10/18	15mm Fittings	No	65
3/10/19	22mm Pipes	No	69
<u>TESTING</u>			
3/10/20	Allow for testing all drains, sanitary plumbing, water supplies and installtion to the satisfaction of the Principle Agent.		Item
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Section 3 - Staff Combined Block			
Bill No. 10			
PLUMBING AND DRAINAGE(PROVISIONAL)			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>PREPARATORY WORK TO EXISTING WORK</u>			
	<u>Previously painted plastered surfaces</u>			
	<u>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</u>			
	<u>Previously painted metal surfaces</u>			
	<u>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</u>			
	<u>Previously painted wood surfaces</u>			
	<u>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</u>			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
3/12/1	On fascias and barge boards	m2	8	
	Carried Forward		R	
	Section No. 3 Section 3 - Staff Combined Block Bill No. 12 PAINTWORK Re-Solve Consulting			

Brought Forward			R
<u>ON METAL</u>			
<u>Prime and paint undercoat and 2 finishing coats in gloss enamel, colour TBC.</u>			
3/12/2	On door frames	m2	17
<u>Spot prining defects in pre-prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP. golden brown gloss enamel paint on steel</u>			
3/12/3	On windows with burglar bars	m2	5
<u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u>			
3/12/4	On gates (Measured over the full flat area of both sides)	m2	7
<u>ON WOOD</u>			
<u>Under coat and minimum 2 coats gloss enamel, colour TBC</u>			
3/12/5	On doors (External)	m2	4
3/12/6	On doors (Internal)	m2	5
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Section 3 - Staff Combined Block			
Bill No. 12			
PAINTWORK			
Re-Solve Consulting			

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		Brought Forward			R
<p><u>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</u></p>					
<p><u>Soil poisoning</u></p>					
<p><u>Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent</u></p>					
<p><u>SITE CLEARANCE ETC</u></p>					
<p><u>Site clearance</u></p>					
4/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	108		
4/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	108		
<p><u>EXCAVATION, FILLING, ETC</u></p>					
<p><u>Excavation in earth not exceeding 2m deep</u></p>					
4/1/3	Trenches	m3	52		
4/1/4	Pits	m3	57		
4/1/5	Thickening under aprons	m3	0.5		
<p><u>Extra over trench and hole excavations in earth for excavation in</u></p>					
4/1/6	Soft rock	m3	7		
4/1/7	Hard rock	m3	4		
		Carried Forward			R
<p>Section No. 4 Section 4 - Girls Block of 8 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting</p>					

Brought Forward				R
<u>Extra over all excavations for carting away</u>				
4/1/8	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	87	
<u>Risk of collapse of excavations</u>				
4/1/9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	335	
<u>Keeping excavations free of water</u>				
4/1/10	Keeping excavations free of all water other than subterranean water		Item	
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
4/1/11	Under floors, steps, paving, etc	m3	16	
4/1/12	Backfilling to trenches, holes, etc	m3	23	
<u>Compaction of surfaces</u>				
4/1/13	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	69	
4/1/14	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 (Enviro Loo Tanks Pit)	m2	38	
4/1/15	Ditto but to bottom of trenches and bases	m2	50	
<u>Prescribed density tests on filling</u>				
4/1/16	Modified AASHTO Density	No	4	
<u>SOIL POISONING</u>				
Carried Forward				R
Section No. 4 Section 4 - Girls Block of 8 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting				

Brought Forward			R
	<u>Weedkiller mixed in accordance to supplier's specifications</u>		
4/1/17	To bottoms and sides of trenches, etc.	m2	262
4/1/18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	142
	<u>Soil insecticide</u>		
4/1/19	To bottoms and sides of trenches etc	m2	262
4/1/20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	119
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Section 4 - Girls Block of 8			
Bill No. 1			
EARTHWORKS(PROVISIONAL)			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>UNREINFORCED CONCRETE, ETC.</u>			
	<u>15MPa/19mm concrete</u>			
4/2/1	Surface blinding under footings and bases	m3	4	
4/2/2	Aprons cast in panels to falls	m3	2	
4/2/3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc	m	30	
4/2/4	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	24	
	<u>25MPa/19mm concrete</u>			
4/2/5	Strip footings	m3	11	
4/2/6	Ramps	m3	2	
	<u>REINFORCED CONCRETE</u>			
	<u>25MPa/19mm concrete</u>			
4/2/7	Surface beds cast in panels on waterproofing.	m3	5	
4/2/8	Slabs (pits)	m3	5	
	Carried Forward		R	
	Section No. 4 Section 4 - Girls Block of 8 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Re-Solve Consulting			

Brought Forward			R
<u>TEST CUBES</u>			
4/2/9	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith	Sets	4.0
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>			
4/2/10	Surface beds, slabs, etc	m2	83
4/2/11	Surface beds, slabs, etc (pits)	m2	36
4/2/12	Aprons to falls	m2	23
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
<u>Rough formwork to sides</u>			
4/2/13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	30
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Fabric Reinforcement</u>			
4/2/14	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	105
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Section 4 - Girls Block of 8			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Re-Solve Consulting			

Brought Forward			R
<u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4/3/2	Extra over brickwork for face brickwork in foundations	m2	7
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
4/3/3	Half brick walls	m2	21
4/3/4	Half brick walls in beamfilling	m2	7
4/3/5	One brick walls	m2	84
<u>FACE BRICKWORK</u>			
4/3/6	Extra over brickwork for face brickwork	m2	81
4/3/7	Extra over brickwork for brick-on-edge header course lintel	m	11
4/3/8	220mm Wide sill set sloping and slightly protecting outside	m	11
4/3/9	Fair cutting fitting around pipe not exceeding 100mm	No	1
4/3/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	9
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
4/3/11	75mm Wide reinforcement built in horizontally	m	21
4/3/12	150mm Wide reinforcement built in horizontally	m	172
<u>Galvanised wire ties etc</u>			
4/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	33
Carried Forward			R
Section No. 4 Section 4 - Girls Block of 8 Bill No. 3 MASONRY Re-Solve Consulting			

Brought Forward		R
<u>Turning pieces to lintels etc.</u>		
230mm Wide turning pieces	m	8
<u>Prestressed fabricated lintels</u>		
110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	34
<u>Air bricks etc.</u>		
230 x 152mm terra-cotta vermin proofed louvered air brick	No	4
Carried Forward to Summary of Section No. 4		R
Section No. 4		
Section 4 - Girls Block of 8		
Bill No. 3		
MASONRY		
Re-Solve Consulting		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
4/4/1	In walls	m2	102	
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
4/4/2	Under surface beds	m2	140	
4/4/3	Under aprons and ramps	m2	12	
	<u>FLOOR AND WALL SEALERS</u>			
	<u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>			
4/4/4	Around steel windows and door frames	m	22	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	Section 4 - Girls Block of 8			
	Bill No. 4			
	WATERPROOFING			
	Re-Solve Consulting			

Item No		Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>BILL NO.5</u>				
<u>ROOF COVERINGS ETC</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>				
4/5/1	Roof covering with pitch not exceeding 25 degrees	m2	48	
<u>ROOF AND WALL INSULATION</u>				
4/5/2	12" Thermal resistance sisalition laid on purlins	m2	48	
<u>RAINWATER DISPOSAL</u>				
<u>Aluminium Zinc Seamless Gutters</u>				
4/5/3	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	11	
4/5/4	Extra over eaves gutter for stopped end	No	2	
4/5/5	75 x 100mm Diameter rainwater down pipes fixed to wall	m	6	
4/5/6	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2	
4/5/7	Ditto .for shoe	No	2	
Carried Forward to Summary of Section No. 4				
Section No. 4				
Section 4 - Girls Block of 8				
Bill No. 5				
ROOF COVERINGS ETC				
Re-Solve Consulting				

Brought Forward			R
4/6/3	Take delivery temporary store hoist in position and erect plate nailed timber roof trusses purlins gangboarding temporary and permanent bracing etc (measured on slope of roof)	Item	
<u>Sawn softwood</u>			
<u>Sundries</u>			
4/6/4	Two coats creosote on sawn timbers	m2	48
4/6/5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	33
4/6/6	Hurricane clips	No	33
<u>EAVES, VERGES, ETC</u>			
<u>Pressed fibre-cement:</u>			
4/6/7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	30
<u>DOORS, ETC</u>			
<u>Wrought meranti doors hung to steel frames</u>			
4/6/8	44mm framed, ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	2
4/6/9	44mm framed, ledged and braced door 813 x 1914mm high (door raised by 150mm from bottom) (D2)	No	8
4/6/10	44mm framed, ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	1
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Section 4 - Girls Block of 8			
Bill No. 6			
CARPENTRY AND JOINERY			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 7</u>			
	<u>IRONMONGERY</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>HINGES, BOLTS, ETC</u>			
	<u>100mm Chrome plated "D" type handle 3 by solid brace hinges</u>			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
4/7/1	100mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>Approved</u>			
4/7/2	Three lever mortice lock set	No	2	
4/7/3	Indicator lock set	No	8	
4/7/4	Security double throw dead lock (no latch)	No	2	
	<u>HANDLES, ETC.</u>			
	<u>Aluminium Pull Handle</u>			
4/7/5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	No	10	
	<u>SUNDRIES</u>			
	Carried Forward		R	
	Section No. 4 Section 4 - Girls Block of 8 Bill No. 7 IRONMONGERY Re-Solve Consulting			

	Brought Forward			R
	<u>ASSA ABLOY</u>			
4/7/6	38mm Diameter rubber door stop plugged	No	10	
	<u>Vaal Paragon</u>			
4/7/7	32mm Type 9 back grab rail 800mm long plugged	No	1	
4/7/8	32mm Type 8 side grab rail 900mm girth plugged	No	1	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	<u>Dorma:</u>			
4/7/9	DSS-130 Engraved "Female" information sign, plugged	No	2	
4/7/10	DSS-133 Engraved "Disabled" information sign, plugged	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>Sundries</u>			
	<u>Kimberley-Clark or Similar</u>			
4/7/11	SQ2 code 405607B white none lockable toilet roll holder	No	9	
	<u>stainless Steel</u>			
4/7/12	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	1	
4/7/13	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc	No	9	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4			
	Section 4 - Girls Block of 8			
	Bill No. 7			
	IRONMONGERY			
	Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SANITARY FITTINGS</u>			
	<u>"Vaal" or similar and approved</u>			
4/10/1	Ceramic wall mounted wash hand basin, complete with all fittings and accesseries including cutting & making good wall & floor wherever required for disable toilets.	No	1	
	<u>SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS</u>			
4/10/2	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,junior 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	8	
4/10/3	Supply and Erect disabled "Enviro-loo"Industrial 1040 Model set up and fixed complete as per manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, junior paraplegic 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	1	
	Carried Forward		R	
	Section No. 4 Section 4 - Girls Block of 8 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting			

Brought Forward			R
<u>PRECAST CONCRETE WASH HAND TROUGH</u>			
4/10/4	Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, fixed complete to berick wall, including all necessary pipework, including soak away as per 'Engineers detail'.	No	3
<u>SOIL DRAINAGE</u>			
<u>uPVC pipes</u>			
4/10/5	110mm Pipes laid in and including trenches not exceeding 1m deep	m	40
<u>Extra over uPVC pipes for fittings</u>			
4/10/6	110mm Bend	No	16
4/10/7	110mm Junction	No	16
<u>uPVC gulleys</u>			
4/10/8	110mm Gully not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	5
<u>TRAPS ETC</u>			
<u>Marley</u>			
4/10/9	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	4
<u>TAPS, VALVES, ETC</u>			
4/10/10	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	3
4/10/11	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	1
Carried Forward			R
Section No. 4 Section 4 - Girls Block of 8 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting			

Brought Forward				R
<u>SANITARY PLUMBING</u>				
<u>uPVC pipes</u>				
4/10/12	50mm Pipes	m	24	
<u>Extra over uPVC pipes for fittings</u>				
4/10/13	50mm Bend	No	5	
4/10/14	50mm Access bend	No	3	
4/10/15	50mm Junction	No	5	
<u>WATER SUPPLIES</u>				
<u>Class 0 copper pipes</u>				
4/10/16	15mm Pipes	m	45	
4/10/17	22mm Pipes	m	24	
<u>Extra over class 0 copper pipes for capillary fittings</u>				
4/10/18	15mm Fittings	No	10	
4/10/19	22mm Pipes	No	11	
<u>TESTING</u>				
4/10/20	Allow for testing all drains, sanitary plumbing, water supplies and installtion to the satisfaction of the Principle Agent.		Item	
Carried Forward to Summary of Section No. 4				R
Section No. 4				
Section 4 - Girls Block of 8				
Bill No. 10				
PLUMBING AND DRAINAGE(PROVISIONAL)				
Re-Solve Consulting				

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Brought Forward			R
<u>ON METAL</u>			
<u>Prime and paint undercoat and 2 finishing coats in gloss enamel, colour TBC.</u>			
4/12/2	On door frames	m2	32
<u>Spot prining defects in pre-prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP. golden brown gloss enamel paint on steel</u>			
4/12/3	On windows with burglar bars	m2	5
<u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u>			
4/12/4	On gates (Measured over the full flat area of both sides)	m2	7
<u>ON WOOD</u>			
<u>Under coat and minimum 2 coats gloss enamel, colour TBC</u>			
4/12/5	On doors (External)	m2	4
4/12/6	On doors (Internal)	m2	12
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Section 4 - Girls Block of 8			
Bill No. 12			
PAINTWORK			
Re-Solve Consulting			

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Brought Forward			R	
<p><u>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</u></p> <p><u>Soil poisoning</u></p> <p><u>Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent</u></p> <p><u>SITE CLEARANCE ETC</u></p> <p><u>Site clearance</u></p>				
5/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	104	
5/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	104	
<p><u>EXCAVATION, FILLING, ETC</u></p> <p><u>Excavation in earth not exceeding 2m deep</u></p>				
5/1/3	Trenches	m3	49	
5/1/4	Pits	m3	52	
5/1/5	Thickening under aprons	m3	0.5	
<p><u>Extra over trench and hole excavations in earth for excavation in</u></p>				
5/1/6	Soft rock	m3	7	
5/1/7	Hard rock	m3	3	
Carried Forward			R	
<p>Section No. 5 Section 5 - Boys Block of 5 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting</p>				

Brought Forward				R
<u>Extra over all excavations for carting away</u>				
5/1/8	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	79	
<u>Risk of collapse of excavations</u>				
5/1/9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	308	
<u>Keeping excavations free of water</u>				
5/1/10	Keeping excavations free of all water other than subterranean water		Item	
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
5/1/11	Under floors, steps, paving, etc	m3	15	
5/1/12	Backfilling to trenches, holes, etc	m3	21	
<u>Compaction of surfaces</u>				
5/1/13	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	68	
5/1/14	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 (Enviro Loo Tanks Pit)	m2	35	
5/1/15	Ditto but to bottom of trenches and bases	m2	46	
<u>Prescribed density tests on filling</u>				
5/1/16	Modified AASHTO Density	No	4	
<u>SOIL POISONING</u>				
Carried Forward				R
Section No. 5 Section 5 - Boys Block of 5 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting				

Brought Forward			R
	<u>Weedkiller mixed in accordance to supplier's specifications</u>		
5/1/17	To bottoms and sides of trenches, etc.	m2	244
5/1/18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	138
	<u>Soil insecticide</u>		
5/1/19	To bottoms and sides of trenches etc	m2	244
5/1/20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	116
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Section 5 - Boys Block of 5			
Bill No. 1			
EARTHWORKS(PROVISIONAL)			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>UNREINFORCED CONCRETE, ETC.</u>			
	<u>15MPa/19mm concrete</u>			
5/2/1	Surface blinding under footings and bases	m3	4	
5/2/2	Aprons cast in panels to falls	m3	2	
5/2/3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc	m	30	
5/2/4	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	22	
	<u>25MPa/19mm concrete</u>			
5/2/5	Strip footings	m3	10	
5/2/6	Ramps	m3	2	
	<u>REINFORCED CONCRETE</u>			
	<u>25MPa/19mm concrete</u>			
5/2/7	Surface beds cast in panels on waterproofing.	m3	5	
5/2/8	Slabs (pits)	m3	5	
	Carried Forward			
	Section No. 5 Section 5 - Boys Block of 5 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Re-Solve Consulting		R	

Brought Forward			R
<u>TEST CUBES</u>			
5/2/9	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith	Sets	4.0
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>			
5/2/10	Surface beds, slabs, etc	m2	83
5/2/11	Surface beds, slabs, etc (pits)	m2	32
5/2/12	Aprons to falls	m2	22
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
<u>Rough formwork to sides</u>			
5/2/13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	30
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Fabric Reinforcement</u>			
5/2/14	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	101
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Section 5 - Boys Block of 5			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Re-Solve Consulting			

Brought Forward			R
<u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
5/3/2	Extra over brickwork for face brickwork in foundations	m2	6
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
5/3/3	Half brick walls	m2	16
5/3/4	Half brick walls in beamfilling	m2	8
5/3/5	One brick walls	m2	97
<u>FACE BRICKWORK</u>			
5/3/6	Extra over brickwork for face brickwork	m2	94
5/3/7	Extra over brickwork for brick-on-edge header course lintel	m	11
5/3/8	220mm Wide sill set sloping and slightly protecting outside	m	11
5/3/9	Fair cutting fitting around pipe not exceeding 100mm	No	7
5/3/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	6
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
5/3/11	75mm Wide reinforcement built in horizontally	m	16
5/3/12	150mm Wide reinforcement built in horizontally	m	178
<u>Galvanised wire ties etc</u>			
5/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	38
Carried Forward			R
Section No. 5 Section 5 - Boys Block of 5 Bill No. 3 MASONRY Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
<u>SECTION NO. 5</u>				
<u>BILL NO.5</u>				
<u>ROOF COVERINGS ETC</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>				
5/5/1	Roof covering with pitch not exceeding 25 degrees	m2	48	
<u>ROOF AND WALL INSULATION</u>				
5/5/2	12" Thermal resistance sisalition laid on purlins	m2	48	
<u>RAINWATER DISPOSAL</u>				
<u>Aluminium Zinc Seamless Gutters</u>				
5/5/3	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	11	
5/5/4	Extra over eaves gutter for stopped end	No	2	
5/5/5	75 x 100mm Diameter rainwater down pipes fixed to wall	m	6	
5/5/6	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2	
5/5/7	Ditto .for shoe	No	2	
Carried Forward to Summary of Section No. 5				
Section No. 5 Section 5 - Boys Block of 5 Bill No. 5 ROOF COVERINGS ETC Re-Solve Consulting				

Brought Forward			R
5/6/3	Take delivery temporary store hoist in position and erect plate nailed timber roof trusses purlins gangboarding temporary and permanent bracing etc (measured on slope of roof)	Item	
<u>Sawn softwood</u>			
<u>Sundries</u>			
5/6/4	Two coats creosote on sawn timbers	m2	48
5/6/5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	38
5/6/6	Hurricane clips	No	38
<u>EAVES, VERGES, ETC</u>			
<u>Pressed fibre-cement:</u>			
5/6/7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	29
<u>DOORS, ETC</u>			
<u>Wrought meranti doors hung to steel frames</u>			
5/6/8	44mm framed, ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	2
5/6/9	44mm framed, ledged and braced door 813 x 1914mm high (door raised by 150mm from bottom) (D2)	No	5
5/6/10	44mm framed, ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	1
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Section 5 - Boys Block of 5			
Bill No. 6			
CARPENTRY AND JOINERY			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 7</u>			
	<u>IRONMONGERY</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>HINGES, BOLTS, ETC</u>			
	<u>100mm Chrome plated "D" type handle 3 by solid brace hinges</u>			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
5/7/1	100mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No 2		
	<u>LOCKS</u>			
	<u>Approved</u>			
5/7/2	Three lever mortice lock set	No 2		
5/7/3	Indicator lock set	No 5		
5/7/4	Security double throw dead lock (no latch)	No 2		
	<u>HANDLES, ETC.</u>			
	<u>Aluminium Pull Handle</u>			
5/7/5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	No 7		
	<u>SUNDRIES</u>			
	Carried Forward		R	
	Section No. 5 Section 5 - Boys Block of 5 Bill No. 7 IRONMONGERY Re-Solve Consulting			

Brought Forward			R
<u>ASSA ABLOY</u>			
5/7/6	38mm Diameter rubber door stop plugged	No	7
<u>Vaal Paragon</u>			
5/7/7	32mm Type 9 back grab rail 800mm long plugged	No	1
5/7/8	32mm Type 8 side grab rail 900mm girth plugged	No	1
<u>LETTERS, NAMEPLATES, ETC</u>			
<u>Dorma:</u>			
5/7/9	DSS-130 Engraved "Male" information sign, plugged	No	2
5/7/10	DSS-133 Engraved "Disabled" information sign, plugged	No	1
<u>BATHROOM FITTINGS</u>			
<u>Sundries</u>			
<u>Kimberley-Clark or Similar</u>			
5/7/11	SQ2 code 405607B white none lockable toilet roll holder	No	6
<u>stainless Steel</u>			
5/7/12	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	1
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Section 5 - Boys Block of 5			
Bill No. 7			
IRONMONGERY			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
<u>SECTION NO. 5</u>				
<u>BILL NO.9</u>				
<u>PLASTERING</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>GRANOLITHIC</u>				
<u>Untinted granolithic on concrete</u>				
5/9/1	20mm Thick on floors	m2	44	
<u>INTERNAL PLASTER</u>				
<u>Cement plaster on brickwork or blockwork</u>				
5/9/2	On internal plastered walls(pits)	m2	97	
<u>FLOOR AND WALLS SEALERS</u>				
<u>Minimum two coats approved epoxy coat:</u>				
5/9/3	On floors in pits	m2	2	
5/9/4	On internal plastered walls in pits	m2	97	
Carried Forward to Summary of Section No. 5				R
Section No. 5 Section 5 - Boys Block of 5 Bill No. 9 PLASTERING Re-Solve Consulting				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SANITARY FITTINGS</u>			
	<u>"Vaal" or similar and approved</u>			
5/10/1	Ceramic wall mounted wash hand basin, complete with all fittings and accesseries including cutting & making good wall & floor wherever required for disable toilets.	No	1	
	<u>SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS</u>			
5/10/2	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	5	
5/10/3	Supply and Erect disabled "Enviro-loo"Industrial 1040 Model set up and fixed complete as per manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, junior paraplegic 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	1	
	Carried Forward		R	
	Section No. 5 Section 5 - Boys Block of 5 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting			

	Brought Forward			R
5/10/4	Supply and Erect "Enviro-loo" Industrial 1040 Model 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	2	
	<u>PRECAST CONCRETE WASH HAND TROUGH</u>			
5/10/5	Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, fixed complete to berick wall, including all necessary pipework, including soak away as per 'Engineers detail'.	No	2	
	<u>SOIL DRAINAGE</u>			
	<u>uPVC pipes</u>			
5/10/6	110mm Pipes laid in and including trenches not exceeding 1m deep	m	30	
	<u>Extra over uPVC pipes for fittings</u>			
5/10/7	110mm Bend	No	12	
5/10/8	110mm Junction	No	12	
	<u>uPVC gulleys</u>			
5/10/9	110mm Gully not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	2	
	<u>TRAPS ETC</u>			
	<u>Marley</u>			
5/10/10	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	3	
	Carried Forward			R
	Section No. 5 Section 5 - Boys Block of 5 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting			

Brought Forward			R
<u>TAPS, VALVES, ETC</u>			
5/10/11	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	1
5/10/12	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	2
<u>SANITARY PLUMBING</u>			
<u>uPVC pipes</u>			
5/10/13	50mm Pipes	m	30
<u>Extra over uPVC pipes for fittings</u>			
5/10/14	50mm Bend	No	12
5/10/15	50mm Access bend	No	12
5/10/16	50mm Junction	No	12
<u>WATER SUPPLIES</u>			
<u>Class 0 copper pipes</u>			
5/10/17	15mm Pipes	m	45
5/10/18	22mm Pipes	m	15
<u>Extra over class 0 copper pipes for capillary fittings</u>			
5/10/19	15mm Fittings	No	15
5/10/20	22mm Pipes	No	9
<u>TESTING</u>			
5/10/21	Allow for testing all drains, sanitary plumbing, water supplies and installtion to the satisfaction of the Principle Agent.	Item	
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Section 5 - Boys Block of 5			
Bill No. 10			
PLUMBING AND DRAINAGE(PROVISIONAL)			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.5</u>			
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>PREPARATORY WORK TO EXISTING WORK</u>			
	<u>Previously painted plastered surfaces</u>			
	<u>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</u>			
	<u>Previously painted metal surfaces</u>			
	<u>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</u>			
	<u>Previously painted wood surfaces</u>			
	<u>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</u>			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
5/12/1	On fascias and barge boards	m2	8	
	Carried Forward		R	
	Section No. 5 Section 5 - Boys Block of 5 Bill No. 12 PAINTWORK Re-Solve Consulting			

Brought Forward			R
<u>ON METAL</u>			
<u>Prime and paint undercoat and 2 finishing coats in gloss enamel, colour TBC.</u>			
5/12/2	On door frames	m2	23
<u>Spot prining defects in pre-prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP. golden brown gloss enamel paint on steel</u>			
5/12/3	On windows with burglar bars	m2	5
<u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u>			
5/12/4	On gates (Measured over the full flat area of both sides)	m2	7
<u>ON WOOD</u>			
<u>Under coat and minimum 2 coats gloss enamel, colour TBC</u>			
5/12/5	On doors (External)	m2	4
5/12/6	On doors (Internal)	m2	8
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Section 5 - Boys Block of 5			
Bill No. 12			
PAINTWORK			
Re-Solve Consulting			

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Brought Forward			R	
<u>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</u>				
<u>Soil poisoning</u>				
<u>Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent</u>				
<u>SITE CLEARANCE ETC</u>				
<u>Site clearance</u>				
6/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	46	
6/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	46	
<u>EXCAVATION, FILLING, ETC</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
6/1/3	Trenches	m3	24	
6/1/4	Pits	m3	23	
6/1/5	Thickening under aprons	m3	0.3	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
6/1/6	Soft rock	m3	3	
6/1/7	Hard rock	m3	2	
Carried Forward			R	
Section No. 6 Section 6 - Boys Block of 4 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting				

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
6/1/8	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	36
<u>Risk of collapse of excavations</u>			
6/1/9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	145
<u>Keeping excavations free of water</u>			
6/1/10	Keeping excavations free of all water other than subterranean water	Item	
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
6/1/11	Under floors, steps, paving, etc	m3	7
6/1/12	Backfilling to trenches, holes, etc	m3	10
<u>Compaction of surfaces</u>			
6/1/13	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	30
6/1/14	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 (Enviro Loo Tanks Pit)	m2	14
6/1/15	Ditto but to bottom of trenches and bases	m2	23
<u>Prescribed density tests on filling</u>			
6/1/16	Modified AASHTO Density	No	
<u>SOIL POISONING</u>			
Carried Forward			R
Section No. 6 Section 6 - Boys Block of 4 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting			

Brought Forward			R
	<u>Weedkiller mixed in accordance to supplier's specifications</u>		
6/1/17	To bottoms and sides of trenches, etc.	m2	119
6/1/18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	62
	<u>Soil insecticide</u>		
6/1/19	To bottoms and sides of trenches etc	m2	119
6/1/20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	50
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Section 6 - Boys Block of 4			
Bill No. 1			
EARTHWORKS(PROVISIONAL)			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>UNREINFORCED CONCRETE, ETC.</u>			
	<u>15MPa/19mm concrete</u>			
6/2/1	Surface blinding under footings and bases	m3	2	
6/2/2	Aprons cast in panels to falls	m3	1	
6/2/3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc	m	17	
6/2/4	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	15	
	<u>25MPa/19mm concrete</u>			
6/2/5	Strip footings	m3	5	
6/2/6	Ramps	m3	2	
	<u>REINFORCED CONCRETE</u>			
	<u>25MPa/19mm concrete</u>			
6/2/7	Surface beds cast in panels on waterproofing.	m3	2	
6/2/8	Slabs (pits)	m3	2	
	Carried Forward			
	Section No. 6 Section 6 - Boys Block of 4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Re-Solve Consulting		R	

Brought Forward			R
<u>TEST CUBES</u>			
6/2/9	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith	Sets	4.0
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>			
6/2/10	Surface beds, slabs, etc	m2	35
6/2/11	Surface beds, slabs, etc (pits)	m2	14
6/2/12	Aprons to falls	m2	12
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
<u>Rough formwork to sides</u>			
6/2/13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	17
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Fabric Reinforcement</u>			
6/2/14	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	44
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Section 6 - Boys Block of 4			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Re-Solve Consulting			

Brought Forward			R
<u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
6/3/2	Extra over brickwork for face brickwork in foundations	m2	3
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
6/3/3	Half brick walls	m2	9
6/3/4	Half brick walls in beamfilling	m2	3
6/3/5	One brick walls	m2	42
<u>FACE BRICKWORK</u>			
6/3/6	Extra over brickwork for face brickwork	m2	42
6/3/7	Extra over brickwork for brick-on-edge header course lintel	m	6
6/3/8	220mm Wide sill set sloping and slightly protecting outside	m	6
6/3/9	Fair cutting fitting around pipe not exceeding 100mm	No	7
6/3/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	5
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
6/3/11	75mm Wide reinforcement built in horizontally	m	9
6/3/12	150mm Wide reinforcement built in horizontally	m	82
<u>Galvanised wire ties etc</u>			
6/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	17
Carried Forward			R
Section No. 6 Section 6 - Boys Block of 4 Bill No. 3 MASONRY Re-Solve Consulting			

Brought Forward			R
<u>Turning pieces to lintels etc.</u>			
6/3/14	230mm Wide turning pieces	m	4
<u>Prestressed fabricated lintels</u>			
6/3/15	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	17
<u>Air bricks etc.</u>			
6/3/16	230 x 152mm terra-cotta vermin proofed louvered air brick	No	2
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Section 6 - Boys Block of 4			
Bill No. 3			
MASONRY			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
6/4/1	In walls	m2	51	
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
6/4/2	Under surface beds	m2	62	
6/4/3	Under aprons and ramps	m2	10	
	<u>FLOOR AND WALL SEALERS</u>			
	<u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>			
6/4/4	Around steel windows and door frames	m	11	
	Carried Forward to Summary of Section No. 6		R	
	Section No. 6 Section 6 - Boys Block of 4 Bill No. 4 WATERPROOFING Re-Solve Consulting			

Item No		Quantity	Rate	Amount
<u>SECTION NO. 6</u>				
<u>BILL NO.5</u>				
<u>ROOF COVERINGS ETC</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>				
6/5/1	Roof covering with pitch not exceeding 25 degrees	m2	20	
<u>ROOF AND WALL INSULATION</u>				
6/5/2	12" Thermal resistance sisalition laid on purlins	m2	20	
<u>RAINWATER DISPOSAL</u>				
<u>Aluminium Zinc Seamless Gutters</u>				
6/5/3	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	5	
6/5/4	Extra over eaves gutter for stopped end	No	2	
6/5/5	75 x 100mm Diameter rainwater down pipes fixed to wall	m	6	
6/5/6	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2	
6/5/7	Ditto .for shoe	No	2	
Carried Forward to Summary of Section No. 6				
Section No. 6				
Section 6 - Boys Block of 4				
Bill No. 5				
ROOF COVERINGS ETC				
Re-Solve Consulting				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>ROOFS, ETC.</u>			
	<u>Plate nailed timber roof truss construction</u>			
6/6/1	Design manufacture and deliver on site plate nailed roof truss construction to Ablutions Block size 4 514 x 3 964 mm overall on plan consisting of mono pitched trusses to suit with 350mm eaves overhang projecting including all necessary purlins runners bracing and cross bracing (wall plates elsewhere) all in accordance with suppliers and manufacturer's recommendations: Trusses are at maximum 110m centres. Roof covering is galvanised "IBR" roof sheeting (measured elsewhere) on 50 x 75mm purlins at 11m maximum centres. All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245. Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish. All joints to be close fitted butt joints. Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences. Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.	No	1	
6/6/2	Profit (As per rate build build up)	Item		
	Carried Forward		R	
	Section No. 6 Section 6 - Boys Block of 4 Bill No. 6 CARPENTRY AND JOINERY Re-Solve Consulting			

Brought Forward			R
6/6/3	Take delivery temporary store hoist in position and erect plate nailed timber roof trusses purlins gangboarding temporary and permanent bracing etc (measured on slope of roof)	Item	
	<u>Sawn softwood</u>		
	<u>Sundries</u>		
6/6/4	Two coats creosote on sawn timbers	m2	20
6/6/5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	17
6/6/6	Hurricane clips	No	17
	<u>EAVES, VERGES, ETC</u>		
	<u>Pressed fibre-cement:</u>		
6/6/7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	17
	<u>DOORS, ETC</u>		
	<u>Wrought meranti doors hung to steel frames</u>		
6/6/8	44mm framed, ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	1
6/6/9	44mm framed, ledged and braced door 813 x 1914mm high (door raised by 150mm from bottom) (D2)	No	4
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Section 6 - Boys Block of 4			
Bill No. 6			
CARPENTRY AND JOINERY			
Re-Solve Consulting			

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Brought Forward			R
<u>ASSA ABLOY</u>			
6/7/6	38mm Diameter rubber door stop plugged	No	5
<u>LETTERS, NAMEPLATES, ETC</u>			
<u>Dorma:</u>			
6/7/7	DSS-130 Engraved "Male" information sign, plugged	No	1
<u>BATHROOM FITTINGS</u>			
<u>Sundries</u>			
<u>Kimberley-Clark or Similar</u>			
6/7/8	SQ2 code 405607B white none lockable toilet roll holder	No	4
Carried Forward to Summary of Section No. 6 Section No. 6 Section 6 - Boys Block of 4 Bill No. 7 IRONMONGERY Re-Solve Consulting			R

Item No		Quantity	Rate	Amount
<u>SECTION NO. 6</u>				
<u>BILL NO. 8</u>				
<u>METALWORK</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>WELDED SCREENS, GATES, ETC</u>				
<u>Gates to external doors</u>				
6/8/1	Purpose made square hollow section mild steel single security gate and frame size to fit standard door, size 813 x 2032mm high	No	1	
6/8/2	Single gate and frame size to fit none standard door, size approximately 915 x 2032mm high (disable)	No	1	
<u>PRESSED STEEL DOOR FRAMES</u>				
<u>1.2mm Double rebated frames suitable for half brick walls</u>				
6/8/3	Frame for door size 813 x 1914mm high	No	4	
<u>1.2mm Single rebate steel frame suitable for one brick wall</u>				
6/8/4	Frame for door size 813 x 2032mm high	No	1	
<u>STEEL WINDOWS, DOORS, ETC</u>				
<u>Nty steel or similar approved school windows with standard burlgar bars formed of 20 x 5mm thick flat bars to all sashes</u>				
6/8/5	Window type NE1, size 533 x 654mm high	No	4	
6/8/6	Window type NE7, size 1022 x 654mm high	No	2	
Carried Forward to Summary of Section No. 6				R
Section No. 6 Section 6 - Boys Block of 4 Bill No. 8 METALWORK Re-Solve Consulting				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SANITARY FITTINGS</u>			
	<u>SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS</u>			
6/10/1	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	
	<u>PRECAST CONCRETE WASH HAND TROUGH</u>			
6/10/2	Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, fixed complete to berick wall, including all necessary pipework, including soak away as per 'Engineers detail'.	No	1	
	<u>SOIL DRAINAGE</u>			
	<u>uPVC pipes</u>			
6/10/3	110mm Pipes laid in and including trenches not exceeding 1m deep	m	20	
	Carried Forward			
	Section No. 6 Section 6 - Boys Block of 4 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting		R	

		Brought Forward		R
		<u>Extra over uPVC pipes for fittings</u>		
6/10/4	110mm Bend	No	8	
6/10/5	110mm Junction	No	8	
		<u>uPVC gulleys</u>		
6/10/6	110mm Gully not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	1	
		<u>TRAPS ETC</u>		
		<u>Marley</u>		
6/10/7	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	1	
		<u>TAPS, VALVES, ETC</u>		
6/10/8	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	1	
		<u>SANITARY PLUMBING</u>		
		<u>uPVC pipes</u>		
6/10/9	50mm Pipes	m	10	
		<u>Extra over uPVC pipes for fittings</u>		
6/10/10	50mm Bend	No	2	
6/10/11	50mm Access bend	No	3	
6/10/12	50mm Junction	No	3	
		<u>WATER SUPPLIES</u>		
		<u>Class 0 copper pipes</u>		
6/10/13	15mm Pipes	m	15	
		Carried Forward		R
	Section No. 6 Section 6 - Boys Block of 4 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting			

Brought Forward			R
6/10/14	22mm Pipes	m	20
<u>Extra over class 0 copper pipes for capillary fittings</u>			
6/10/15	15mm Fittings	No	4
6/10/16	22mm Pipes	No	4
<u>TESTING</u>			
6/10/17	Allow for testing all drains, sanitary plumbing, water supplies and installtion to the satisfaction of the Principle Agent.		Item
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Section 6 - Boys Block of 4			
Bill No. 10			
PLUMBING AND DRAINAGE(PROVISIONAL)			
Re-Solve Consulting			

[illegible]

Brought Forward			R
<u>ON METAL</u>			
<u>Prime and paint undercoat and 2 finishing coats in gloss enamel, colour TBC.</u>			
6/12/2	On door frames	m2	16
<u>Spot prining defects in pre-prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP. golden brown gloss enamel paint on steel</u>			
6/12/3	On windows with burglar bars	m2	3
<u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u>			
6/12/4	On gates (Measured over the full flat area of both sides)	m2	4
<u>ON WOOD</u>			
<u>Under coat and minimum 2 coats gloss enamel, colour TBC</u>			
6/12/5	On doors (External)	m2	2
6/12/6	On doors (Internal)	m2	6
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Section 6 - Boys Block of 4			
Bill No. 12			
PAINTWORK			
Re-Solve Consulting			

[illegible]

		Brought Forward			R
<p><u>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</u></p>					
<p><u>Soil poisoning</u></p>					
<p><u>Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent</u></p>					
<p><u>SITE CLEARANCE ETC</u></p>					
<p><u>Site clearance</u></p>					
7/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	54		
7/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	54		
<p><u>EXCAVATION, FILLING, ETC</u></p>					
<p><u>Excavation in earth not exceeding 2m deep</u></p>					
7/1/3	Trenches	m3	12		
7/1/4	Thickening under aprons	m3	0.4		
<p><u>Extra over trench and hole excavations in earth for excavation in</u></p>					
7/1/5	Soft rock	m3	1		
7/1/6	Hard rock	m3	1		
		Carried Forward			R
<p>Section No. 7 Section 7 - Grade R G4 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting</p>					

Brought Forward				R
<u>Extra over all excavations for carting away</u>				
7/1/7	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	7	
<u>Risk of collapse of excavations</u>				
7/1/8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	36	
<u>Keeping excavations free of water</u>				
7/1/9	Keeping excavations free of all water other than subterranean water		Item	
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
7/1/10	Under floors, steps, paving, etc	m3	7	
7/1/11	Backfilling to trenches, holes, etc	m3	6	
<u>Compaction of surfaces</u>				
7/1/12	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	49	
7/1/13	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 (Enviro Loo Tanks Pit)	m2	2	
7/1/14	Ditto but to bottom of trenches and bases	m2	17	
<u>Prescribed density tests on filling</u>				
7/1/15	Modified AASHTO Density	No	4	
<u>SOIL POISONING</u>				
Carried Forward				R
Section No. 7 Section 7 - Grade R G4 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting				

Brought Forward			R
	<u>Weedkiller mixed in accordance to supplier's specifications</u>		
7/1/16	To bottoms and sides of trenches, etc.	m2	52
7/1/17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	69
	<u>Soil insecticide</u>		
7/1/18	To bottoms and sides of trenches etc	m2	52
7/1/19	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	48
Carried Forward to Summary of Section No. 7			R
Section No. 7			
Section 7 - Grade R G4			
Bill No. 1			
EARTHWORKS(PROVISIONAL)			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
<u>SECTION NO. 7</u>				
<u>BILL NO. 2</u>				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>UNREINFORCED CONCRETE, ETC.</u>				
<u>15MPa/19mm concrete</u>				
7/2/1	Surface blinding under footings and bases	m3	1	
7/2/2	Aprons cast in panels to falls	m3	2	
7/2/3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc	m	21	
7/2/4	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	21	
<u>25MPa/19mm concrete</u>				
7/2/5	Strip footings	m3	4	
7/2/6	Ramps	m3	2	
<u>REINFORCED CONCRETE</u>				
<u>25MPa/19mm concrete</u>				
7/2/7	Surface beds cast in panels on waterproofing.	m3	3	
Carried Forward				R
Section No. 7 Section 7 - Grade R G4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Re-Solve Consulting				

Brought Forward			R
<u>TEST CUBES</u>			
7/2/8	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith	Sets	4.0
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>			
7/2/9	Surface beds, slabs, etc	m2	48
7/2/10	Aprons to falls	m2	21
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
<u>Rough formwork to sides</u>			
7/2/11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	21
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Fabric Reinforcement</u>			
7/2/12	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	49
Carried Forward to Summary of Section No. 7			R
Section No. 7			
Section 7 - Grade R G4			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Re-Solve Consulting			

Brought Forward			R
<u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
7/3/2	Extra over brickwork for face brickwork in foundations	m2	4
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
7/3/3	Half brick walls	m2	3
7/3/4	Half brick walls in beamfilling	m2	4
7/3/5	One brick walls	m2	55
<u>FACE BRICKWORK</u>			
7/3/6	Extra over brickwork for face brickwork	m2	51
7/3/7	Extra over brickwork for brick-on-edge header course lintel	m	7
7/3/8	220mm Wide sill set sloping and slightly protecting outside	m	7
7/3/9	Fair cutting fitting around pipe not exceeding 100mm	No	4
7/3/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	5
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
7/3/11	75mm Wide reinforcement built in horizontally	m	3
7/3/12	150mm Wide reinforcement built in horizontally	m	78
<u>Galvanised wire ties etc</u>			
7/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	21
Carried Forward			R
Section No. 7 Section 7 - Grade R G4 Bill No. 3 MASONRY Re-Solve Consulting			

Brought Forward		R
<u>Turning pieces to lintels etc.</u>		
115mm Wide turning pieces	m	6
230mm Wide turning pieces	m	5
<u>Prestressed fabricated lintels</u>		
110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	9
<u>Air bricks etc.</u>		
230 x 152mm terra-cotta vermin proofed louvered air brick	No	2
Carried Forward to Summary of Section No. 7		R
Section No. 7		
Section 7 - Grade R G4		
Bill No. 3		
MASONRY		
Re-Solve Consulting		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
7/4/1	In walls	m2	51	
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
7/4/2	Under surface beds	m2	67	
7/4/3	Under aprons and ramps	m2	2	
	<u>FLOOR AND WALL SEALERS</u>			
	<u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>			
7/4/4	Around steel windows and door frames	m	8	
	Carried Forward to Summary of Section No. 7		R	
	Section No. 7			
	Section 7 - Grade R G4			
	Bill No. 4			
	WATERPROOFING			
	Re-Solve Consulting			

Item No		Quantity	Rate	Amount
<u>SECTION NO. 7</u>				
<u>BILL NO.5</u>				
<u>ROOF COVERINGS ETC</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>				
7/5/1	Roof covering with pitch not exceeding 25 degrees	m2	28	
<u>ROOF AND WALL INSULATION</u>				
7/5/2	12" Thermal resistance sisalition laid on purlins	m2	28	
<u>RAINWATER DISPOSAL</u>				
<u>Aluminium Zinc Seamless Gutters</u>				
7/5/3	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	6	
7/5/4	Extra over eaves gutter for stopped end	No	2	
7/5/5	75 x 100mm Diameter rainwater down pipes fixed to wall	m	6	
7/5/6	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2	
7/5/7	Ditto .for shoe	No	2	
Carried Forward to Summary of Section No. 7				
Section No. 7				
Section 7 - Grade R G4				
Bill No. 5				
ROOF COVERINGS ETC				
Re-Solve Consulting				

Item No	Quantity	Rate	Amount
<u>SECTION NO. 7</u>			
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
<u>ROOFS, ETC.</u>			
<u>Plate nailed timber roof truss construction</u>			
7/6/1	No	1	
Design manufacture and deliver on site plate nailed roof truss construction to Ablutions Block size 6 453 x 3 964 mm overall on plan consisting of mono pitched trusses to suit with 350mm eaves overhang projecting including all necessary purlins runners bracing and cross bracing (wall plates elsewhere) all in accordance with suppliers and manufacturer's recommendations: Trusses are at maximum 110m centres. Roof covering is galvanised "IBR" roof sheeting (measured elsewhere) on 50 x 75mm purlins at 11m maximum centres. All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.All joints to be close fitted butt joints.Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabricaton commences.Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.			
7/6/2	Item		
Profit (As per rate build build up)			
Carried Forward			R
Section No. 7 Section 7 - Grade R G4 Bill No. 6 CARPENTRY AND JOINERY Re-Solve Consulting			

Brought Forward			R
7/6/3	Take delivery temporary store hoist in position and erect plate nailed timber roof trusses purlins gangboarding temporary and permanent bracing etc (measured on slope of roof)	Item	
<u>Sawn softwood</u>			
<u>Sundries</u>			
7/6/4	Two coats creosote on sawn timbers	m2	28
7/6/5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	21
7/6/6	Hurricane clips	No	21
<u>EAVES, VERGES, ETC</u>			
<u>Pressed fibre-cement:</u>			
7/6/7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	24
<u>DOORS, ETC</u>			
<u>Wrought meranti doors hung to steel frames</u>			
7/6/8	44mm framed, ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	1
7/6/9	44mm framed, ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	1
Carried Forward to Summary of Section No. 7			R
Section No. 7			
Section 7 - Grade R G4			
Bill No. 6			
CARPENTRY AND JOINERY			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 7</u>			
	<u>IRONMONGERY</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>HINGES, BOLTS, ETC</u>			
	<u>100mm Chrome plated "D" type handle 3 by solid brace hinges</u>			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
7/7/1	100mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1	
	<u>LOCKS</u>			
	<u>Approved</u>			
7/7/2	Three lever mortice lock set	No	1	
7/7/3	Security double throw dead lock (no latch)	No	1	
	<u>HANDLES, ETC.</u>			
	<u>Aluminium Pull Handle</u>			
7/7/4	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	No	1	
	<u>SUNDRIES</u>			
	<u>ASSA ABLOY</u>			
7/7/5	38mm Diameter rubber door stop plugged	No	1	
	Carried Forward		R	
	Section No. 7 Section 7 - Grade R G4 Bill No. 7 IRONMONGERY Re-Solve Consulting			

	Brought Forward			R
	<u>Vaal Paragon</u>			
7/7/6	32mm Type 9 back grab rail 800mm long plugged	No	1	
7/7/7	32mm Type 8 side grab rail 900mm girth plugged	No	1	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	<u>Dorma:</u>			
7/7/8	DSS-130 Engraved "Female" information sign, plugged	No	1	
7/7/9	DSS-133 Engraved "Disabled" information sign, plugged	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>Sundries</u>			
	<u>Kimberley-Clark or Similar</u>			
7/7/10	SQ2 code 405607B white none lockable toilet roll holder	No	5	
	<u>stainless Steel</u>			
7/7/11	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	1	
Carried Forward to Summary of Section No. 7				R
Section No. 7				
Section 7 - Grade R G4				
Bill No. 7				
IRONMONGERY				
Re-Solve Consulting				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SANITARY FITTINGS</u>			
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497</u>			
7/10/1	Junior Vaal semi close suite with 90 degree wash down pan and matching vandal proof 6 litre Hibiscus cistern complete with front flush push button, lid, fitments and heavy duty solid white double flap toilet seat	No	4	
7/10/2	Junior Vaal "Pearl Paraplegic" semi close couple boxed suite with 90 degree washdown pan and matching vandal proof 6 litre purpose made cistern complete with side-flush lever and purpose made urea seat, lid, fitments and heavy duty solid white double flap toilet seat, including F14C cranked rail and F16C cistern rail.	No	1	
7/10/3	Junior "Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	4	
	<u>SOIL DRAINAGE</u>			
	<u>uPVC pipes</u>			
7/10/4	110mm Pipes laid in and including trenches not exceeding 1m deep	m	32	
	Carried Forward			
	Section No. 7 Section 7 - Grade R G4 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting		R	

Brought Forward				R
<u>Extra over uPVC pipes for fittings</u>				
7/10/5	110mm Bend	No	8	
7/10/6	110mm Junction	No	8	
<u>uPVC gulleys</u>				
7/10/7	110mm Gully not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	8	
<u>TRAPS ETC</u>				
<u>Marley</u>				
7/10/8	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	6	
<u>TAPS, VALVES, ETC</u>				
7/10/9	15mm gate valve plugged	No	9	
7/10/10	15mm elbow action tap plugged	No	2	
<u>SANITARY PLUMBING</u>				
<u>uPVC pipes</u>				
7/10/11	50mm Pipes	m	90	
<u>Extra over uPVC pipes for fittings</u>				
7/10/12	50mm Bend	No	18	
7/10/13	50mm Access bend	No	18	
7/10/14	50mm Junction	No	18	
<u>WATER SUPPLIES</u>				
<u>Class 0 copper pipes</u>				
7/10/15	15mm Pipes	m	90	
Carried Forward				R
Section No. 7 Section 7 - Grade R G4 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting				

Brought Forward			R
7/10/16	22mm Pipes	m	80
<u>Extra over class 0 copper pipes for capillary fittings</u>			
7/10/17	15mm Fittings	No	65
7/10/18	22mm Pipes	No	69
<u>TESTING</u>			
7/10/19	Allow for testing all drains, sanitary plumbing, water supplies and installtion to the satisfaction of the Principle Agent.		Item
Carried Forward to Summary of Section No. 7			R
Section No. 7			
Section 7 - Grade R G4			
Bill No. 10			
PLUMBING AND DRAINAGE(PROVISIONAL)			
Re-Solve Consulting			

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Brought Forward			R
<u>ON METAL</u>			
<u>Prime and paint undercoat and 2 finishing coats in gloss enamel, colour TBC.</u>			
7/12/2	On door frames	m2	4
<u>Spot prining defects in pre-prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP. golden brown gloss enamel paint on steel</u>			
7/12/3	On windows with burglar bars	m2	3
<u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u>			
7/12/4	On gates (Measured over the full flat area of both sides)	m2	4
<u>ON WOOD</u>			
<u>Under coat and minimum 2 coats gloss enamel, colour TBC</u>			
7/12/5	On doors (External)	m2	2
Carried Forward to Summary of Section No. 7			R
Section No. 7			
Section 7 - Grade R G4			
Bill No. 12			
PAINTWORK			
Re-Solve Consulting			

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		Brought Forward		R
<p><u>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</u></p>				
<p><u>Soil poisoning</u></p>				
<p><u>Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent</u></p>				
<p><u>SITE CLEARANCE ETC</u></p>				
<p><u>Site clearance</u></p>				
8/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	44	
8/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	44	
<p><u>EXCAVATION, FILLING, ETC</u></p>				
<p><u>Excavation in earth not exceeding 2m deep</u></p>				
8/1/3	Trenches	m3	10	
8/1/4	Thickening under aprons	m3	0.4	
<p><u>Extra over trench and hole excavations in earth for excavation in</u></p>				
8/1/5	Soft rock	m3	1	
8/1/6	Hard rock	m3	0.4	
		Carried Forward		R
<p>Section No. 8 Section 8 - Grade R B1 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting</p>				

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
8/1/7	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	6
<u>Risk of collapse of excavations</u>			
8/1/8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	31
<u>Keeping excavations free of water</u>			
8/1/9	Keeping excavations free of all water other than subterranean water	Item	
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
8/1/10	Under floors, steps, paving, etc	m3	6
8/1/11	Backfilling to trenches, holes, etc	m3	5
<u>Compaction of surfaces</u>			
8/1/12	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	40
8/1/13	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 (Enviro Loo Tanks Pit)	m2	2
8/1/14	Ditto but to bottom of trenches and bases	m2	14
<u>Prescribed density tests on filling</u>			
8/1/15	Modified AASHTO Density	No	4
<u>SOIL POISONING</u>			
Carried Forward			R
Section No. 8 Section 8 - Grade R B1 Bill No. 1 EARTHWORKS(PROVISIONAL) Re-Solve Consulting			

Brought Forward			R
	<u>Weedkiller mixed in accordance to supplier's specifications</u>		
8/1/16	To bottoms and sides of trenches, etc.	m2	45
8/1/17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	54
	<u>Soil insecticide</u>		
8/1/18	To bottoms and sides of trenches etc	m2	45
8/1/19	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	34
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Section 8 - Grade R B1			
Bill No. 1			
EARTHWORKS(PROVISIONAL)			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
<u>SECTION NO. 8</u>				
<u>BILL NO. 2</u>				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>UNREINFORCED CONCRETE, ETC.</u>				
<u>15MPa/19mm concrete</u>				
8/2/1	Surface blinding under footings and bases	m3	1	
8/2/2	Aprons cast in panels to falls	m3	2	
8/2/3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc	m	17	
8/2/4	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	18	
<u>25MPa/19mm concrete</u>				
8/2/5	Strip footings	m3	3	
8/2/6	Ramps	m3	2	
<u>REINFORCED CONCRETE</u>				
<u>25MPa/19mm concrete</u>				
8/2/7	Surface beds cast in panels on waterproofing.	m3	2	
Carried Forward				R
Section No. 8 Section 8 - Grade R B1 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Re-Solve Consulting				

Brought Forward			R
<u>TEST CUBES</u>			
8/2/8	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith	Sets	4.0
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>			
8/2/9	Surface beds, slabs, etc	m2	34
8/2/10	Aprons to falls	m2	20
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
<u>Rough formwork to sides</u>			
8/2/11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	17
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Fabric Reinforcement</u>			
8/2/12	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	40
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Section 8 - Grade R B1			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Re-Solve Consulting			

Brought Forward			R
<u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
8/3/2	Extra over brickwork for face brickwork in foundations	m2	3
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
8/3/3	Half brick walls	m2	1
8/3/4	Half brick walls in beamfilling	m2	3
8/3/5	One brick walls	m2	45
<u>FACE BRICKWORK</u>			
8/3/6	Extra over brickwork for face brickwork	m2	42
8/3/7	Extra over brickwork for brick-on-edge header course lintel	m	5
8/3/8	110mm Wide sill set level and slightly projecting	m	
8/3/9	220mm Wide sill set sloping and slightly protecting outside	m	5
8/3/10	Fair cutting fitting around pipe not exceeding 100mm	No	
8/3/11	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
8/3/12	75mm Wide reinforcement built in horizontally	m	1
8/3/13	150mm Wide reinforcement built in horizontally	m	65
Carried Forward			R
Section No. 8 Section 8 - Grade R B1 Bill No. 3 MASONRY Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
8/4/1	In walls	m2	42	
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
8/4/2	Under surface beds	m2	52	
8/4/3	Under aprons and ramps	m2	2	
	<u>FLOOR AND WALL SEALERS</u>			
	<u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>			
8/4/4	Around steel windows and door frames	m	6	
	Carried Forward to Summary of Section No. 8		R	
	Section No. 8			
	Section 8 - Grade R B1			
	Bill No. 4			
	WATERPROOFING			
	Re-Solve Consulting			

Item No		Quantity	Rate	Amount
<u>SECTION NO. 8</u>				
<u>BILL NO.5</u>				
<u>ROOF COVERINGS ETC</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>				
8/5/1	Roof covering with pitch not exceeding 25 degrees	m2	19	
<u>ROOF AND WALL INSULATION</u>				
8/5/2	12" Thermal resistance sisalition laid on purlins	m2	19	
<u>RAINWATER DISPOSAL</u>				
<u>Aluminium Zinc Seamless Gutters</u>				
8/5/3	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	5	
8/5/4	Extra over eaves gutter for stopped end	No		
8/5/5	75 x 100mm Diameter rainwater down pipes fixed to wall	m	6	
8/5/6	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No		
8/5/7	Ditto .for shoe	No		
Carried Forward to Summary of Section No. 8				
Section No. 8				
Section 8 - Grade R B1				
Bill No. 5				
ROOF COVERINGS ETC				
Re-Solve Consulting				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>ROOFS, ETC.</u>			
	<u>Plate nailed timber roof truss construction</u>			
8/6/1	Design manufacture and deliver on site plate nailed roof truss construction to Ablutions Block size 4 567 x 3 964 mm overall on plan consisting of mono pitched trusses to suit with 350mm eaves overhang projecting including all necessary purlins runners bracing and cross bracing (wall plates elsewhere) all in accordance with suppliers and manufacturer's recommendations: Trusses are at maximum 110m centres. Roof covering is galvanised "IBR" roof sheeting (measured elsewhere) on 50 x 75mm purlins at 11m maximum centres. All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245. Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish. All joints to be close fitted butt joints. Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences. Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.	No	1	
8/6/2	Profit (As per rate build build up)	Item		
	Carried Forward		R	
	Section No. 8 Section 8 - Grade R B1 Bill No. 6 CARPENTRY AND JOINERY Re-Solve Consulting			

Brought Forward			R
8/6/3	Take delivery temporary store hoist in position and erect plate nailed timber roof trusses purlins gangboarding temporary and permanent bracing etc (measured on slope of roof)	Item	
<u>Sawn softwood</u>			
<u>Sundries</u>			
8/6/4	Two coats creosote on sawn timbers	m2	19
8/6/5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	17
8/6/6	Hurricane clips	No	17
<u>EAVES, VERGES, ETC</u>			
<u>Pressed fibre-cement:</u>			
8/6/7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	17
<u>DOORS, ETC</u>			
<u>Wrought meranti doors hung to steel frames</u>			
8/6/8	44mm framed, ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	1
8/6/9	44mm framed, ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	1
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Section 8 - Grade R B1			
Bill No. 6			
CARPENTRY AND JOINERY			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO. 7</u>			
	<u>IRONMONGERY</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>HINGES, BOLTS, ETC</u>			
	<u>100mm Chrome plated "D" type handle 3 by solid brace hinges</u>			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
8/7/1	100mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1	
	<u>LOCKS</u>			
	<u>Approved</u>			
8/7/2	Three lever mortice lock set	No	1	
8/7/3	Security double throw dead lock (no latch)	No	1	
	<u>HANDLES, ETC.</u>			
	<u>Aluminium Pull Handle</u>			
8/7/4	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	No	1	
	<u>SUNDRIES</u>			
	<u>ASSA ABLOY</u>			
8/7/5	38mm Diameter rubber door stop plugged	No	1	
	Carried Forward		R	
	Section No. 8 Section 8 - Grade R B1 Bill No. 7 IRONMONGERY Re-Solve Consulting			

Brought Forward			R
<u>Vaal Paragon</u>			
8/7/6	32mm Type 9 back grab rail 800mm long plugged	No	1
8/7/7	32mm Type 8 side grab rail 900mm girth plugged	No	1
<u>LETTERS, NAMEPLATES, ETC</u>			
<u>Dorma:</u>			
8/7/8	DSS-130 Engraved "Male" information sign, plugged	No	1
8/7/9	DSS-133 Engraved "Disabled" information sign, plugged	No	1
<u>BATHROOM FITTINGS</u>			
<u>Sundries</u>			
<u>Kimberley-Clark or Similar</u>			
8/7/10	SQ2 code 405607B white none lockable toilet roll holder	No	2
<u>stainless Steel</u>			
8/7/11	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	1
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Section 8 - Grade R B1			
Bill No. 7			
IRONMONGERY			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
<u>SECTION NO. 8</u>				
<u>BILL NO. 10</u>				
<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<u>SANITARY FITTINGS</u>				
<u>White glazed fireclay or vitreous china coupling with SABS specification 497</u>				
8/10/1	Junior Vaal semi close suite with 90 degree wash down pan and matching vandal proof 6 litre Hibiscus cistern complete with front flush push button, lid, fitments and heavy duty solid white double flap toilet seat	No	1	
8/10/2	Junior "Flatback" wall urinal with spreader and waste union including approved urinal flush valve	No	2	
8/10/3	Junior Vaal "Pearl Paraplegic" semi close couple boxed suite with 90 degree washdown pan and matching vandal proof 6 litre purpose made cistern complete with side-flush lever and purpose made urea seat, lid, fitments and heavy duty solid white double flap toilet seat, including F14C cranked rail and F16C cistern rail.	No	1	
8/10/4	Junior "Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	3	
<u>SOIL DRAINAGE</u>				
Carried Forward				R
Section No. 8 Section 8 - Grade R B1 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting				

	Brought Forward			R
	<u>uPVC pipes</u>			
8/10/5	110mm Pipes laid in and including trenches not exceeding 1m deep	m	16	
	<u>Extra over uPVC pipes for fittings</u>			
8/10/6	110mm Bend	No	2	
8/10/7	110mm Junction	No	8	
	<u>uPVC gulleys</u>			
8/10/8	110mm Gulley not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	2	
	<u>TRAPS ETC</u>			
	<u>Marley</u>			
8/10/9	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	2	
	<u>TAPS, VALVES, ETC</u>			
8/10/10	15mm gate valve plugged	No	3	
8/10/11	15mm elbow action tap plugged	No	1	
	<u>SANITARY PLUMBING</u>			
	<u>uPVC pipes</u>			
8/10/12	50mm Pipes	m	30	
	<u>Extra over uPVC pipes for fittings</u>			
8/10/13	50mm Bend	No	8	
8/10/14	50mm Access bend	No	6	
8/10/15	50mm Junction	No	6	
	<u>WATER SUPPLIES</u>			
	Carried Forward			R
	Section No. 8 Section 8 - Grade R B1 Bill No. 10 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting			

Brought Forward				R
<u>Class 0 copper pipes</u>				
8/10/16	15mm Pipes	m	30	
8/10/17	22mm Pipes	m	20	
<u>Extra over class 0 copper pipes for capillary fittings</u>				
8/10/18	15mm Fittings	No	25	
8/10/19	22mm Pipes	No	29	
<u>TESTING</u>				
8/10/20	Allow for testing all drains, sanitary plumbing, water supplies and installtion to the satisfaction of the Principle Agent.		Item	
Carried Forward to Summary of Section No. 8				R
Section No. 8				
Section 8 - Grade R B1				
Bill No. 10				
PLUMBING AND DRAINAGE(PROVISIONAL)				
Re-Solve Consulting				

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Brought Forward			R
<u>ON METAL</u>			
<u>Prime and paint undercoat and 2 finishing coats in gloss enamel, colour TBC.</u>			
8/12/2	On door frames	m2	4
<u>Spot prining defects in pre-prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP. golden brown gloss enamel paint on steel</u>			
8/12/3	On windows with burglar bars	m2	2
<u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u>			
8/12/4	On gates (Measured over the full flat area of both sides)	m2	4
<u>ON WOOD</u>			
<u>Under coat and minimum 2 coats gloss enamel, colour TBC</u>			
8/12/5	On doors (External)	m2	2
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Section 8 - Grade R B1			
Bill No. 12			
PAINTWORK			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.9</u>			
	<u>BILL NO. 1</u>			
	<u>ELEVATED WATER TANKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Excavation in earth not exceeding 2m deep</u>			
9/1/1	Holes	m3	21	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
9/1/2	Soft rock	m3	11	
9/1/3	Hard rock	m3	5	
	<u>Extra over all excavations for carting away</u>			
9/1/4	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	16	
	<u>Risk of collapse of excavations</u>			
9/1/5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	43	
	<u>Keeping excavations free of water</u>			
9/1/6	Keeping excavations free of all water other than subterranean water	Item		
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
9/1/7	Backfilling to trenches, holes, etc	m3	5	
	Carried Forward		R	
	Section No. 9 Section 9 - External Works Bill No. 1 Elevated Water Tanks Re-Solve Consulting			

	Brought Forward			R	
	<u>Compaction of surfaces</u>				
9/1/8	Ditto but to bottom of trenches and bases	m2	64		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
9/1/9	To bottoms and sides of trenches etc	m2	64		
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
9/1/10	Under surface beds	m2	64		
	<u>UNREINFORCED CONCRETE, ETC.</u>				
	<u>15MPa/19mm concrete</u>				
9/1/11	Surface blinding under footings and bases	m3	3		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
9/1/12	Bases	m3	16		
9/1/13	Platform surface beds cast in panels	m3	13		
	<u>TEST CUBES</u>				
9/1/14	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith	Sets	4.0		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>				
9/1/15	Platform surface beds	m2	64		
	Carried Forward			R	
	Section No. 9				
	Section 9 - External Works				
	Bill No. 1				
	Elevated Water Tanks				
	Re-Solve Consulting				

	Brought Forward			R
9/1/16	Top of bases	m2	13	
	<u>"Jojo" or equal approved SANS PVC water tanks</u>			
9/1/17	10 000 Litre plastic water tank fitted onto and secured to tank platforms	No	4	
	<u>Galvanized medium normalized mild steel piping</u>			
9/1/18	25mm Pipes	m	160	
9/1/19	50mm Pipes	m	272	
	<u>Extra over galvanised mild steel water supply pipes for fittings:</u>			
9/1/20	25mm Fittings	No	27	
9/1/21	50mm Elbows	No	27	
9/1/22	50mm Union	No	27	
9/1/23	50mm Reducing bush.	No	11	
	<u>"Cobra Watertech" or other equal approved</u>			
9/1/24	15mm "Cobra Ref. 108LK" brass hose biptap.	No	11	
9/1/25	50mm Fullway gate valve	No	11	
	<u>The following in structural steel tank stands</u>			
	<u>Welded steel columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>			
9/1/26	80 x 80mm x 6mm angle columns	t	3.97	
	<u>Steel members and girth, bolted to steel</u>			
9/1/27	30 x 30mm x 6mm Flat-bar	t	0.51	
	Carried Forward			R
	Section No. 9 Section 9 - External Works Bill No. 1 Elevated Water Tanks Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>SECTION 9</u>			
	<u>BILL NO. 2</u>			
	<u>PAVED WALKWAYS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Site Clearance</u>			
9/2/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc	m2	162	
9/2/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	162	
	<u>Open face excavation in earth over sloping site</u>			
9/2/3	Excavation in earth not exceeding 2m open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 10m from perimeter of excavations exceeding 2m deep	m3	41	
	<u>Extra over all excavations for carting away</u>			
9/2/4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	41	
	<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>			
9/2/5	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	41	
	Carried Forward		R	
	Section No. 9 Section 9 - External Works Bill No. 2 Paved Walkways Re-Solve Consulting			

Brought Forward			R
<u>Compaction of surfaces</u>			
9/2/6	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	162
<u>Soil poisoning</u>			
9/2/7	Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrisien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m ² on cleared ground	m2	162
<u>60mm Thick precast concrete DZZ interlocking heavy duty block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor:</u>			
9/2/8	Paving to toilet areas etc to falls	m2	162
9/2/9	Fig. 12 kerbs to sides of paving	m	282
9/2/10	15Mpa/19mm unreinforced concrete in haunching	m3	8
Carried Forward to Summary of Section No. 9			R
Section No. 9			
Section 9 - External Works			
Bill No. 2			
Paved Walkways			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION 9</u>			
	<u>BILL NO. 3</u>			
	<u>FENCING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Alterations</u>			
	<u>Take down and removing</u>			
9/3/1	Steel palisade fencing not exceeding 2400mm high	m	756	
	<u>Steel palisade fence</u>			
	<u>Mild steel welded palisade fence including spot prime exposed metal surfaces and two coats high gloss enamel paint</u>			
9/3/2	Palisade fence 2400mm high of 40 x 40 x 3mm angle section continuous top and bottom rails and 30 x 30 x 3mm angle section pickets with top end split and sharpened at average 150mm centres, welded to rails, rails welded 2600mm high posts of 76 x 76 x 5mm square tube with steel pyramid shaped capping on top at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean, neat and painted	m	756	
	Carried Forward to Summary of Section No. 9		R	
	Section No. 9 Section 9 - External Works Bill No. 3 Fencing Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION 9</u>			
	<u>BILL NO. 4</u>			
	<u>SEPTIC TANKS, ETC.</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
9/4/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	33	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>			
9/4/2	Holes	m3	88	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
9/4/3	Soft rock	m3	9	
9/4/4	Hard rock	m3	4	
	<u>Extra over all excavations for carting away</u>			
9/4/5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	81	
	<u>Risk of collapse of excavations</u>			
9/4/6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	76	
	Carried Forward			
	Section No. 9 Section 9 - External Works Bill No. 4 Septic Tanks, etc. Re-Solve Consulting		R	

Brought Forward			R
<u>Keeping excavations free of water</u>			
9/4/7	Keeping excavations free of all water other than subterranean water	Item	
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
9/4/8	Backfilling to trenches, holes, etc	m3	7
<u>Compaction of surfaces</u>			
9/4/9	Ditto but to bottom of trenches and bases	m2	22
<u>SOIL POISONING</u>			
<u>Soil insecticide</u>			
9/4/10	To bottoms and sides of trenches etc	m2	22
<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
9/4/11	Under surface beds	m2	22
<u>UNREINFORCED CONCRETE, ETC.</u>			
<u>15MPa/19mm concrete</u>			
9/4/12	Surface blinding under footings and bases	m3	1
<u>REINFORCED CONCRETE</u>			
<u>25MPa/19mm concrete</u>			
9/4/13	Bases	m3	7
9/4/14	Slabs over septic tank	m3	4
9/4/15	Concrete haunch formed below pipes	m3	
Carried Forward			R
Section No. 9 Section 9 - External Works Bill No. 4 Septic Tanks, etc. Re-Solve Consulting			

Brought Forward

R

TEST CUBES

9/4/16	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith	Sets	4.0
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float/steel trowel

9/4/17	Surface beds, slabs, etc.	m2	22
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Permanent formwork to soffits

9/4/18	Slab over septic tank	m2	22
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SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth formwork to sides

9/4/19	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	19
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Smooth formwork to form

9/4/20	Opening not exceeding 1m girth through 170mm slab	No	2
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REINFORCEMENT (PROVISIONAL)

Fabric Reinforcement

9/4/21	Mesh ref. No. 888 fabric reinforcement fixed horizontal in surface beds etc.	m2	22
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FOUNDATIONS (PROVISIONAL)

Brickwork of NFP bricks in class II mortar

9/4/22	One brick walls	m2	76
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Carried Forward

R

Section No. 9
Section 9 - External Works
Bill No. 4
Septic Tanks, etc.
Re-Solve Consulting

Brought Forward			R
<u>BRICKWORK SUNDRIES</u>			
9/4/23	Leave of form 450 x 150mm high opening through a one brick wall	No	2
9/4/24	Leave or form opening through one brickwall for pipe 110mm dia	No	3
<u>Brickwork reinforcement</u>			
9/4/25	150mm Wide reinforcement built in horizontally	m	201
<u>PLASTERING</u>			
<u>Watertight cement plaster on brickwork</u>			
9/4/26	On walls	m2	76
<u>Screed</u>			
9/4/27	On floors	m2	22
<u>Two coats approved epoxy coats</u>			
9/4/28	On walls and floors	m2	98
<u>PLUMBING AND DRAINAGE</u>			
<u>uPVC pipes</u>			
9/4/29	110mm Pipes	m	45
<u>Extra over uPVC pipes for fittings</u>			
9/4/30	110mm Tee	No	2
<u>Cover, etc</u>			
9/4/31	600 x 600mm Type 2A cast iron single seal manhole cover and frame	No	4
9/4/32	Lifting key for manhole cover	No	1
<u>FRENCH DRAINS</u>			
Carried Forward			R
Section No. 9 Section 9 - External Works Bill No. 4 Septic Tanks, etc. Re-Solve Consulting			

Brought Forward			R
<u>SITE CLEARANCE ETC</u>			
<u>Site clearance</u>			
9/4/33	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	20
<u>EXCAVATION, FILLING, ETC</u>			
<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>			
9/4/34	Holes	m3	16
<u>Extra over trench and hole excavations in earth for excavation in</u>			
9/4/35	Soft rock	m3	2
9/4/36	Hard rock	m3	1
<u>Extra over all excavations for carting away</u>			
9/4/37	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	10
<u>Risk of collapse of excavations</u>			
9/4/38	Sides of trench and hole excavations not exceeding 1,5m deep	m2	4
<u>Keeping excavations free of water</u>			
9/4/39	Keeping excavations free of all water other than subterranean water		Item
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
9/4/40	On top of french drain as soil cover	m3	7
<u>FILTER FABRIC</u>			
Carried Forward			R
Section No. 9 Section 9 - External Works Bill No. 4 Septic Tanks, etc. Re-Solve Consulting			

	Brought Forward			R
	<u>"Kaytech Engineered Fabric" or similar approved laid in strict accordance to the manufacturer's instructions</u>			
9/4/41	"Kaymat U14" or equal approved around stone filling in sub-soil drain trenches	m2	20	
	<u>20mm Graded stone filling or similar approved</u>			
9/4/42	In holes	m3	5	
	<u>200 - 300mm Diameter clean washed stone filling or similar approved by engineer</u>			
9/4/43	In holes	m3	15	
	<u>WATERPROOFING</u>			
	<u>One layer of 250 micron "Tarkon USB Green" or equal approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
9/4/44	On top of pipes as protection of joints	m2	20	
	<u>ROOF SHEETING</u>			
	<u>Roof sheeting</u>			
9/4/45	On top of french drain	m2	20	
	<u>uPVC pipes</u>			
9/4/46	110mm pipes laid in and including trenches	m	80	
9/4/47	160mm pipes laid in and including trenches	m	100	
	<u>Extra over uPVC pipes for fittings</u>			
9/4/48	110mm End cap	No	60	
9/4/49	110mm Bend	No	30	
	Carried Forward to Summary of Section No. 9			R
	Section No. 9			
	Section 9 - External Works			
	Bill No. 4			
	Septic Tanks, etc.			
	Re-Solve Consulting			

Item No		Quantity	Rate	Amount
<u>SECTION NO.9</u>				
<u>BILL NO. 5</u>				
<u>BOREHOLE REFURBISHMENT</u>				
<u>Refurbishing of existing boreholes incl, assessment of borehole booster pump, submersible cables, pipes, covers, float switches, valves, etc.</u>				
9/5/1	Existing boreholes	No	1	
Carried Forward to Summary of Section No. 9				R
Section No. 9				
Section 9 - External Works				
Bill No. 5				
Borehole Refurbishment				
Re-Solve Consulting				

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Section No		Page No	Amount
<u>FINAL SUMMARY</u>			
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7	Section 7 - Grade R G4	151	
8	Section 8 - Grade R B1	175	
9	Section 9 - External Works	190	
SUB TOTAL			R
<u>ADD: CONTINGENCIES</u>			
Contingencies		Item	643 000.00
SUB TOTAL BEFORE VAT			R
<u>ADD: VALUE ADDED TAX</u>			
Value Added Tax (15%)			R
TENDER SUM CARRIED FORWARD TO FORM OF OFFER AND ACCEPTANCE			R
Carried to Form of Tender			R
Re-Solve Consulting			