

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	
<u>42.2 CONTRACT DETAILS</u>		
42.2.1 Works Description:		
Construction of sanitation facilities		
42.2.2 Site Description:		
as per the information on the tender data		
42.2.3 Work or installations by direct contractors:		
N/a		
42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only	Yes	
42.2.5 Date on which possession of the site is intended to be given:		
As per the information provided in the Tender Data		
42.2.6 Period for the commencement of the works after the contractor takes possession of the site	7 DAYS	
42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day		
Intended Date of Practical Completion: As per the information provided in the Tender Data		
Penalty Amount:		
The penalty per calendar day shall be 7.5 cents per R100 of the Tendered Amount (inclusive of value added tax)		
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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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	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:			
		No		
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete			
		No		
	12.1.3 Interest of agents (B2.4)			
	.			
	12.1.4 Defined works area (B3.1)			
			
	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)		
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12.1.7 Previous work - dimensional accuracy (B3.4)		
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12.1.8 Previous work - defects (B3.5)		
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12.1.9 Services - known (B3.7)		
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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		
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Brought Forward		R	
<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>			
Carried Forward		R	
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<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>	
		R	

Brought Forward

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SECTION C: SPECIFIC PRELIMINARIES??

Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included

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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	Brought Forward			R	
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			
	Carried Forward			R	
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Brought Forward

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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

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1/1/111

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

Brought Forward

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 - Staff Ablutions Bill No. 1 ALTERATIONS Re-Solve Consulting			

Brought Forward			R
<u>DEMOLITIONS AND ALTERATIONS</u>			
<u>DEMOLITIONS OF EXISTING TOILET STRUCTURES</u>			
2/1/1	Demolish existing pit toilet structures including hacking up and removing foundations and surface beds, doors, windows and door frames, ironmongery and plumbing fittings complete. All pits are to be filled with soil.	No	8
2/1/2	Demolish existing ground slab (max strength and size, 25MPa and 10m2 respectively) with mesh reinforcement for pit toilets that have been abandoned. All pits are to be filled with soil.	No	8
<u>Refurbishment of existing 'Enviro Loo' toilet seats</u>			
2/1/3	Refurbish existing seats including fixing and/or replacement of seats, connector pans, toilet bowls, etc.	No	24
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Section 2 - Staff Ablutions			
Bill No. 1			
ALTERATIONS			
Re-Solve Consulting			

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 2</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
<u>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
<u>Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes</u>			
<u>Nature of ground</u>			
<u>A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured</u>			
<u>Carting away of excavated material</u>			
<u>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</u>			
<u>Filling</u>			
Carried Forward		R	
Section No. 2 Section 2 - Staff Ablutions Bill No. 2 EARTHWORKS(PROVISIONAL) Re-Solve Consulting			

Brought Forward

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

Soil poisoning

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

SITE CLEARANCE ETC

Site clearance

2/2/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	104
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2/2/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	104
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EXCAVATION, FILLING, ETC

Excavation in earth not exceeding 2m deep

2/2/3	Trenches	m3	51
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2/2/4	Pits	m3	40
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2/2/5	Thickening under aprons	m3	0.5
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Extra over trench and hole excavations in earth for excavation in

2/2/6	Soft rock	m3	6
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2/2/7	Hard rock	m3	3
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Carried Forward

Section No. 2
Section 2 - Staff Ablutions
Bill No. 2
EARTHWORKS(PROVISIONAL)
Re-Solve Consulting

Brought Forward				R
<u>Extra over all excavations for carting away</u>				
2/2/8	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	68	
<u>Risk of collapse of excavations</u>				
2/2/9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	289	
<u>Keeping excavations free of water</u>				
2/2/10	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>				
2/2/11	Under floors, steps, paving, etc	m3	15	
2/2/12	Backfilling to trenches, holes, etc	m3	23	
<u>Compaction of surfaces</u>				
2/2/13	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	74	
2/2/14	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	30	
2/2/15	Ditto but to bottom of trenches and bases	m2	49	
<u>Prescribed density tests on filling</u>				
2/2/16	Modified AASHTO Density	No	4	
<u>SOIL POISONING</u>				
Carried Forward				R
Section No. 2 Section 2 - Staff Ablutions Bill No. 2 EARTHWORKS(PROVISIONAL) Re-Solve Consulting				

Brought Forward			R
	<u>Weedkiller mixed in accordance to supplier's specifications</u>		
2/2/17	To bottoms and sides of trenches, etc.	m2	252
2/2/18	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>		
2/2/19	To bottoms and sides of trenches etc	m2	252
2/2/20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	117
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Section 2 - Staff Ablutions			
Bill No. 2			
EARTHWORKS(PROVISIONAL)			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</u>			
	<u>UNREINFORCED CONCRETE, ETC.</u>			
	<u>15MPa/19mm concrete</u>			
2/3/1	Surface blinding under footings and bases	m3	4	
2/3/2	Aprons cast in panels to falls	m3	2	
2/3/3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc	m	32	
2/3/4	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>			
2/3/5	Strip footings	m3	10	
2/3/6	Ramps	m3	5	
	<u>REINFORCED CONCRETE</u>			
	<u>25MPa/19mm concrete</u>			
2/3/7	Surface beds cast in panels on waterproofing.	m3	5	
2/3/8	Slabs (pits)	m3	4	
	Carried Forward			
	Section No. 2 Section 2 - Staff Ablutions Bill No. 3 CONCRETE, FORMWORK AND REINFORCEMENT Re-Solve Consulting		R	

Brought Forward

R

TEST CUBES

2/3/9	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
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CONCRETE SUNDRIES

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

2/3/10	Surface beds, slabs, etc	m2	92
2/3/11	Surface beds, slabs, etc (pits)	m2	25
2/3/12	Aprons to falls	m2	21

SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Rough formwork to sides

2/3/13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	32
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REINFORCEMENT (PROVISIONAL)

Fabric Reinforcement

2/3/14	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	99
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Carried Forward to Summary of Section No. 2

R

Section No. 2
Section 2 - Staff Ablutions
Bill No. 3
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>			
2/4/2	Extra over brickwork for face brickwork in foundations	m2	9
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
2/4/3	Half brick walls	m2	19
2/4/4	Half brick walls in beamfilling	m2	6
2/4/5	One brick walls	m2	89
<u>FACE BRICKWORK</u>			
2/4/6	Extra over brickwork for face brickwork	m2	78
2/4/7	Extra over brickwork for brick-on-edge header course lintel	m	13
2/4/8	220mm Wide sill set sloping and slightly protecting outside	m	13
2/4/9	Fair cutting fitting around pipe not exceeding 100mm	No	2
2/4/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	7
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
2/4/11	75mm Wide reinforcement built in horizontally	m	19
2/4/12	150mm Wide reinforcement built in horizontally	m	173
<u>Galvanised wire ties etc</u>			
2/4/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	32
Carried Forward			R
Section No. 2 Section 2 - Staff Ablutions Bill No. 4 MASONRY Re-Solve Consulting			

Brought Forward			R
<u>Turning pieces to lintels etc.</u>			
2/4/14	230mm Wide turning pieces	m	9
<u>Prestressed fabricated lintels</u>			
2/4/15	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	17
<u>Air bricks etc.</u>			
2/4/16	230 x 152mm terra-cotta vermin proofed louvered air brick	No	4
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Section 2 - Staff Ablutions			
Bill No. 4			
MASONRY			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 7</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</u>			
	<u>ROOFS, ETC.</u>			
	<u>Plate nailed timber roof truss construction</u>			
2/7/1	Design, manufacture and deliver on site, plate nailed roof truss construction to Staff Ablutions Block, size 11 991 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 1,10m centres. Roof covering is galvanised "IBR" roof sheeting (measured elsewhere) on 50 x 75mm purlins at 1,1m 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.			
2/7/2	Profit			
		Item		
		Item		
	Carried Forward		R	
	Section No. 2 Section 2 - Staff Ablutions Bill No. 7 CARPENTRY AND JOINERY Re-Solve Consulting			

	Brought Forward			R
2/7/3	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>			
2/7/4	38 x 114mm Wall plates	m	32	
	<u>Sundries</u>			
2/7/5	Two coats creosote on sawn timbers	m2	43	
2/7/6	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	32	
2/7/7	Hurricane clips	No	32	
	<u>EAVES, VERGES, ETC</u>			
	<u>Pressed fibre-cement:</u>			
2/7/8	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	25	
	<u>DOORS, ETC</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
2/7/9	44mm framed, ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	2	
2/7/10	44mm framed, ledged and braced door 813 x 1914mm high (door raised by 150mm from bottom) (D2)	No	5	
2/7/11	44mm framed, ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	2	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Section 2 - Staff Ablutions			
	Bill No. 7			
	CARPENTRY AND JOINERY			
	Re-Solve Consulting			

Brought Forward			R
<u>ASSA ABLOY</u>			
2/8/6	38mm Diameter rubber door stop plugged	No	9
<u>Vaal Paragon</u>			
2/8/7	32mm Type 9 back grab rail 800mm long plugged	No	2
2/8/8	32mm Type 8 side grab rail 900mm girth plugged	No	2
<u>LETTERS, NAMEPLATES, ETC</u>			
<u>Dorma:</u>			
2/8/9	DSS-130 Engraved "Male" information sign, plugged	No	1
2/8/10	DSS-130 Engraved "Female" information sign, plugged	No	1
2/8/11	DSS-133 Engraved "Disabled" information sign, plugged	No	2
<u>BATHROOM FITTINGS</u>			
<u>Sundries</u>			
<u>Kimberley-Clark or Similar</u>			
2/8/12	SQ2 code 405607B white none lockable toilet roll holder	No	5
<u>stainless Steel</u>			
2/8/13	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	2
2/8/14	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc	No	4
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Section 2 - Staff Ablutions			
Bill No. 8			
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>			
2/9/6	Window type NE1, size 533 x 654mm high	No	9
2/9/7	Window type NE7, size 1022 x 654mm high	No	4
<u>Sundries</u>			
<u>Cage, etc</u>			
2/9/8	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. 2			R
Section No. 2			
Section 2 - Staff Ablutions			
Bill No. 9			
METALWORK			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>			
	<u>SANITARY FITTINGS</u>			
	<u>"Vaal" or similar and approved</u>			
2/11/1	Ceramic wall mounted wash hand basin, complete with all fittings and accesseries including cutting & making good wall & floor wherever required for disable toilets.	No	2	
	<u>SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS</u>			
2/11/2	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	
2/11/3	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, 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	2	
	Carried Forward			
	Section No. 2 Section 2 - Staff Ablutions Bill No. 11 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting		R	

	Brought Forward			R
2/11/4	Supply and Erect "Enviro-loo" 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	3	
	<u>PRECAST CONCRETE WASH HAND TROUGH</u>			
2/11/5	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>			
2/11/6	110mm Pipes laid in and including trenches not exceeding 1m deep	m	35	
	<u>Extra over uPVC pipes for fittings</u>			
2/11/7	110mm Bend	No	7	
2/11/8	110mm Junction	No	7	
	<u>uPVC gulleys</u>			
2/11/9	110mm Gully not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	4	
	<u>TRAPS ETC</u>			
	<u>Marley</u>			
2/11/10	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	4	
	<u>TAPS, VALVES, ETC</u>			
2/11/11	Cobra Watertech 15mm gate valve plugged	No	2	
	Carried Forward			R
	Section No. 2 Section 2 - Staff Ablutions Bill No. 11 PLUMBING AND DRAINAGE(PROVISIONAL) Re-Solve Consulting			

Brought Forward			R
2/11/12	Cobra Watertech 15mm Elbow action pillar tap	No	2
<u>SANITARY PLUMBING</u>			
<u>uPVC pipes</u>			
2/11/13	50mm Pipes	m	15
<u>Extra over uPVC pipes for fittings</u>			
2/11/14	50mm Bend	No	5
2/11/15	50mm Access bend	No	5
2/11/16	50mm Junction	No	5
<u>WATER SUPPLIES</u>			
<u>Class 0 copper pipes</u>			
2/11/17	15mm Pipes	m	25
2/11/18	22mm Pipes	m	25
<u>Extra over class 0 copper pipes for capillary fittings</u>			
2/11/19	15mm Fittings	No	4
2/11/20	22mm Pipes	No	4
<u>TESTING</u>			
2/11/21	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. 2			R
Section No. 2			
Section 2 - Staff Ablutions			
Bill No. 11			
PLUMBING AND DRAINAGE(PROVISIONAL)			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BILL NO. 13</u>			
	<u>PAINTWORK</u>			
	<u>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</u>			
	<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>			
2/13/1	On fascias and barge boards	m2	8	
	Carried Forward		R	
	Section No. 2 Section 2 - Staff Ablutions Bill No. 13 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>			
2/13/2	On door frames	m2	33
<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>			
2/13/3	On windows with burglar bars	m2	6
<u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u>			
2/13/4	On gates (Measured over the full flat area of both sides)	m2	15
<u>ON WOOD</u>			
<u>Under coat and minimum 2 coats gloss enamel, colour TBC</u>			
2/13/5	On doors (External)	m2	16
2/13/6	On doors (Internal)	m2	8
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Section 2 - Staff Ablutions			
Bill No. 13			
PAINTWORK			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</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>			
3/1/1	Holes	m3	16	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3/1/2	Soft rock	m3	8	
3/1/3	Hard rock	m3	4	
	<u>Extra over all excavations for carting away</u>			
3/1/4	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>			
3/1/5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	32	
	<u>Keeping excavations free of water</u>			
3/1/6	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>			
3/1/7	Backfilling to trenches, holes, etc	m3	4	
	Carried Forward			
	Section No. 3			
	Section 3 - External Works			
	Bill No. 1			
	Elevated Water Tanks			
	Re-Solve Consulting			

	Brought Forward			R	
	<u>Compaction of surfaces</u>				
3/1/8	Ditto but to bottom of trenches and bases	m2	48		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
3/1/9	To bottoms and sides of trenches etc	m2	48		
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
3/1/10	Under surface beds	m2	48		
	<u>UNREINFORCED CONCRETE, ETC.</u>				
	<u>15MPa/19mm concrete</u>				
3/1/11	Surface blinding under footings and bases	m3	2		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
3/1/12	Bases	m3	12		
3/1/13	Platform surface beds cast in panels	m3	10		
	<u>TEST CUBES</u>				
3/1/14	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>				
3/1/15	Platform surface beds	m2	48		
	Carried Forward			R	
	Section No. 3				
	Section 3 - External Works				
	Bill No. 1				
	Elevated Water Tanks				
	Re-Solve Consulting				

Brought Forward			R
3/1/16	Top of bases	m2	10
<u>"Jojo" or equal approved SANS PVC water tanks</u>			
3/1/17	5 000 Litre plastic water tank fitted onto and secured to tank platforms	No	
3/1/18	10 000 Litre plastic water tank fitted onto and secured to tank platforms	No	3
<u>Galvanized medium normalized mild steel piping</u>			
3/1/19	25mm Pipes	m	120
3/1/20	50mm Pipes	m	204
<u>Extra over galvanised mild steel water supply pipes for fittings:</u>			
3/1/21	25mm Fittings	No	20
3/1/22	50mm Elbows	No	20
3/1/23	50mm Union	No	20
3/1/24	50mm Reducing bush.	No	8
<u>"Cobra Watertech" or other equal approved</u>			
3/1/25	15mm "Cobra Ref. 108LK" brass hose biptap.	No	8
3/1/26	50mm Fullway gate valve	No	8
<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>			
3/1/27	80 x 80mm x 6mm angle columns	t	2.98
Carried Forward			R
Section No. 3 Section 3 - External Works Bill No. 1 Elevated Water Tanks Re-Solve Consulting			

Brought Forward				R
<u>Steel members and girth, bolted to steel</u>				
3/1/28	30 x 30mm x 6mm Flat-bar	t	0.38	
3/1/29	40 x 40mm x 5mm angle	t	0.38	
3/1/30	125 x 75mm x 8mm unequal angle	t	0.44	
3/1/31	125 x 50mm x 20 x 2mm Lipped channel	t	0.94	
<u>BOLTS, FASTENERS, ETC (LI)</u>				
3/1/32	High tensile bolts	t	1.00	
3/1/33	12mm Diameter L-shaped threaded anchor bolt 350mm girth embedded in top of concrete	No	32	
<u>ON METAL</u>				
<u>Undercoat and minimum 2 coat gloss enamel</u>				
3/1/34	Paint to structural steel	m	250	
<u>TESTING</u>				
<u>Testing of water tanks</u>				
3/1/35	Testing for tank		Item	
Carried Forward to Summary of Section No. 3				R
Section No. 3				
Section 3 - External Works				
Bill No. 1				
Elevated Water Tanks				
Re-Solve Consulting				

Item No		Quantity	Rate	Amount
	<u>SECTION 3</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>			
3/2/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc	m2	311	
3/2/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	311	
	<u>Open face excavation in earth over sloping site</u>			
3/2/3	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	78	
	<u>Extra over all excavations for carting away</u>			
3/2/4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	78	
	<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>			
3/2/5	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	78	
	Carried Forward		R	
	Section No. 3 Section 3 - External Works Bill No. 2 Paved Walkways Re-Solve Consulting			

Brought Forward			R
<u>Compaction of surfaces</u>			
3/2/6	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	311
<u>Soil poisoning</u>			
3/2/7	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	311
<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>			
3/2/8	Paving to toilet areas etc to falls	m2	311
3/2/9	Fig. 12 kerbs to sides of paving	m	383
3/2/10	15Mpa/19mm unreinforced concrete in haunching	m3	11
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Section 3 - External Works			
Bill No. 2			
Paved Walkways			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<u>SECTION 3</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>			
3/3/1	Steel palisade fencing not exceeding 2400mm high	m	580	
	<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>			
3/3/2	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	580	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	Section 3 - External Works			
	Bill No. 3			
	Fencing			
	Re-Solve Consulting			
			R	

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