

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 1</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>PRELIMINARIES</u></b>			
	<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>			
	<b><u>Principal Building Agreement Code 2101 Edition 4.1 March 2005 (including State Provisions)</u></b>			
	<b><u>AND PRELIMINARIES Code 2103 May 2005</u></b>			
	<b><u>PRELIMINARIES NOTES</u></b>			
	i) The <b>agreement</b> 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 <b>preliminaries</b> 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			
	<b>Carried Forward</b>		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			

<p style="text-align: right;"><b>Brought Forward</b></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;"><b>Carried Forward</b></p> <p>Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b></p>		R	

	<b>Brought Forward</b>		R	
	<b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b>			
	<b><u>Definitions (A1)</u></b>			
1/1/1	Definitions and interpretation (clause 1)	Item		
	<b><u>Objective and Preparation (A2 to A14)</u></b>			
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		
	<b><u>Execution (A15-A23)</u></b>			
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		
	<b>Carried Forward</b>		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			

	<b>Brought Forward</b>		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	
	<b><u>Completion (A24-A30)</u></b>		
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	
	<b><u>Payment (A31 - A35)</u></b>		
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	
	<b>Carried Forward</b>		R
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>		

	<b>Brought Forward</b>		R
	<b><u>Cancellation (A36-A39)</u></b>		
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	
	<b><u>Dispute (A40)</u></b>		
1/1/40	Dispute Settlement (clause 40)	Item	
	<b><u>Substitute Provisions (A41)</u></b>		
1/1/41	State clauses (Clause 41)	Item	
	<b><u>THE SCHEDULE</u></b>		
	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	
	<b><u>42.1 CONTRACTING AND OTHER PARTIES</u></b>		
	42.1.1 Employer:  THE MVULA TRUST		
	42.1.2 Principal Agent:  RE-SOLVE CONSULTING		
	<b>Carried Forward</b>		R
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>		

Brought Forward		R
<p><b>42.2 CONTRACT DETAILS</b></p> <p>42.2.1 Works Description:</p> <p>Construction of sanitation facilities</p> <p>42.2.2 Site Description:</p> <p>as per the information on the tender data</p> <p>42.2.3 Work or installations by direct contractors:</p> <p>N/a</p> <p>42.2.4 This agreement is for a government contract where there are specific options that are applicable to a <b>State</b> organ only</p> <p>Yes</p> <p>42.2.5 Date on which possession of the site is intended to be given:</p> <p>As per the information provided in the Tender Data</p> <p>42.2.6 Period for the commencement of the works after the contractor takes possession of the site</p> <p>7 DAYS</p> <p>42.2.7 For the works as a whole. Intended date of practical completeion and the penalty per calendar day</p> <p>Intended Date of Practical Completion: As per the information provided in the Tender Data</p> <p>Penalty Amount:</p> <p>The penalty per calender day shall be 7.5 cents per R100 of the Tendered Amount (inclusive of value added tax)</p>		
Carried Forward		R
<p>Section No. 1</p> <p>Section 1 - Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p><b>Re-Solve Consulting</b></p>		

<b>Brought Forward</b>	R	
42.2.8 For the works in <b>sections</b> : Intended date of practical completion and the penalty per calender day		
N/a		
42.2.9 The <b>law</b> applicable to this <b>agreement</b> shall be that of		
<i>South Africa (country)</i>		
<b><u>42.3 INSURANCES</u></b>		
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		
<b><u>42.4 DOCUMENTS</u></b>		
42.4.1 Waivers of <b>contractors lien</b> or right of continuing possession is required		
Yes		
42.4.2 Number of construction document copies to be supplied to the <b>contractor</b> 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" .		
<b>Carried Forward</b>	R	
Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>		

<p style="text-align: right;"><b>Brought Forward</b></p> <p>42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within <b>working days</b></p> <p style="text-align: right;">5 working days</p> <p>42.4.5 JBCC Engineering General Conditions are to be included in the <b>contract documents</b>:</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;"><b>Carried Forward</b></p> <p>Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b></p>		R	



	<b>Brought Forward</b>		R	
	<b><u>SECTION B: PRELIMINARIES</u></b>			
	<b><u>Definitions and interpretation (B1)</u></b>			
1/1/43	Definition and interpretation (B1.1 - B1.4.6)	Item		
	<b><u>Documents (B2)</u></b>			
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		
	<b><u>The site (B3)</u></b>			
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		
	<b>Carried Forward</b>		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			

	<b>Brought Forward</b>		R	
	<b><u>Management of contract (B4)</u></b>			
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		
	<b><u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u></b>			
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		
	<b><u>Temporary works and plant (B6)</u></b>			
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		
	<b><u>Temporary services (B7)</u></b>			
1/1/76	Location (B7.1)	Item		
1/1/77	Water (B7.2)	Item		
	<b>Option [A] shall apply</b>			
	<b>Carried Forward</b>		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			

	<b>Brought Forward</b>		R	
1/1/78	Electricity (B7.3) <b>Option [A] shall apply</b>	Item		
1/1/79	Telecommunication facilities (B7.4)	Item		
1/1/80	Ablution facilities (B7.5) <b>Option [A] shall apply</b>	Item		
	<b><u>Prime cost amounts (B8)</u></b>			
1/1/81	Responsibility for prime cost amounts (B8.1)	Item		
	<b><u>Attendance on N/S Subcontractors (B9)</u></b>			
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		
	<b><u>Financial aspects (B10)</u></b>			
	Statutory taxes, duties and levies (B10.1)	Item		
1/1/85	Payment of preliminaries (B10.2) <b>Option [B] shall apply</b>	Item		
1/1/86	Adjustment of preliminaries (B10.3) <b>Option [A] shall apply</b>	Item		
1/1/87	Payment certificate cash flow (B10.4)	Item		
	<b><u>General (B11)</u></b>			
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		
	<b>Carried Forward</b>		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			

	<b>Brought Forward</b>		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	
	<b><u>Schedule of variables (B12)</u></b>		
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		
	<b>Carried Forward</b>		R
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>		

<b>Brought Forward</b>		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			
<b>Carried Forward</b>  Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>		R	

<b>Brought Forward</b>		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>	Yes		
<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>			
<b>Carried Forward</b>		R	
<p>Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b></p>			

<p style="text-align: right;"><b>Brought Forward</b></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><b><u>Post tender information (B12.2)</u></b></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;"><b>Carried Forward</b></p> <p>Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b></p>		<p>R</p>	
		R	

Brought Forward

R

**SECTION C: SPECIFIC PRELIMINARIES??**

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

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

Carried Forward

R

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



**Brought Forward**

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**

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

R

R

**Brought Forward**

R

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

Item

**Carried Forward**

R

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

**Brought Forward**

R

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

**Carried Forward**

R

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

**Brought Forward**

R

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.

Item

**Carried Forward**

R

Section No. 1

Section 1 - Preliminaries and General

Bill No. 1

Preliminaries

**Re-Solve Consulting**

	<b>Brought Forward</b>		R	
1/1/112	<b>Occupational Health and Safety Specification</b>  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	<b>Occupational Health and Safety Specification</b>  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	<b>Occupational Health and Safety Specification</b>  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	<b>Provision of personal protective equipment (PPE)</b>  F:..... V:..... T:.....  Provision of hard hats	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			

	<b>Brought Forward</b>		R	
1/1/117	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of protective footwear	Item		
1/1/118	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of earplugs	Item		
1/1/119	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of dust masks	Item		
1/1/120	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of gloves	Item		
1/1/121	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of high visibility overalls to SARTSM Chapter 13 Level 3	Item		
1/1/122	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of SANS approved ear defenders	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			

	<b>Brought Forward</b>		R	
1/1/123	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of face masks (Covid -19)	Item		
1/1/124	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of face shields (Covid -19)	Item		
1/1/125	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of gloves (Covid -19)	Item		
1/1/126	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of hand sanitiser (min 70% alchohol), foot press stands and paper towels (Covid -19)	Item		
1/1/127	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			

	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	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)	Item		
1/1/130	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of signage, including Covid -19 related signage	Item		
1/1/131	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Provision of full time construction health and safety officer (SACPCMP Registered)	Item		
1/1/132	<b>Provision of personal protective equipment (PPE)</b> F:..... V:..... T:.....  Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations	Item		
	Carried Forward		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			



	<b>Brought Forward</b>		R	
1/1/133	<b>Provision of personal protective equipment (PPE)</b>  F:..... V:..... T:.....   Medical screenings, examinations, etc in terms of Covid-19 regulations	Item		
1/1/134	<b>Provision of personal protective equipment (PPE)</b>  F:..... V:..... T:.....   Induction training, including Covid-19 training	Item		
1/1/135	<b>Provision of personal protective equipment (PPE)</b>  F:..... V:..... T:.....   Provision of first aid boxes to GSR requirements	Item		
1/1/136	<b>Provision of personal protective equipment (PPE)</b>  F:..... V:..... T:.....   Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc	Item		
1/1/137	<b>Provision of personal protective equipment (PPE)</b>  F:..... V:..... T:.....   Submission of health and safety file	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Section 1 - Preliminaries and General Bill No. 1 Preliminaries <b>Re-Solve Consulting</b>			

**Brought Forward**

R

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.

Item

**SUMMARY OF CATEGORIES**

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

**Carried to Final Summary**

R

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

Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>ALTERATIONS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<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			
	<b>Carried Forward</b>		R	
	Section No. 2 Section 2 - Demolitions and Alterations Bill No. 1 ALTERATIONS <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>DEMOLITIONS AND ALTERATIONS</u></b>			
<b><u>DEMOLITIONS OF EXISTING TOILET STRUCTURES</u></b>			
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
<b><u>Refurbishment of existing 'Enviro Loo' toilet seats</u></b>			
2/1/3	Refurbish existing seats including fixing and/or replacement of seats, connector pans, toilet bowls, etc.	No	8
<b>Carried to Final Summary</b>			R
Section No. 2 Section 2 - Demolitions and Alterations Bill No. 1 ALTERATIONS <b>Re-Solve Consulting</b>			

Item No	Quantity	Rate	Amount
<b><u>SECTION 3</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Nature of ground</u></b>			
<b><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></b>			
<b><u>Nature of ground</u></b>			
<b><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></b>			
<b><u>Carting away of excavated material</u></b>			
<b><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></b>			
<b><u>Filling</u></b>			
		R	
Carried Forward			
Section No. 3 Section 3 - Combined Staff Bill No. 1 Earthworks (Provisional) <b>Re-Solve Consulting</b>			

<b>Brought Forward</b>			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>			
<b><u>SITE CLEARANCE ETC</u></b>			
<b><u>Site clearance</u></b>			
3/1/1	Digging up and removing rubbish debris vegetation hedges shrubs and trees not exceeding 200mm girth bush etc	m2	96
3/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	96
<b><u>EXCAVATION FILLING ETC</u></b>			
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3/1/3	Trenches	m3	47
3/1/4	Pits	m3	40
3/1/5	Thickening under aprons	m3	0.4
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
3/1/6	Soft rock	m3	6
3/1/7	Hard rock	m3	3
<b>Carried Forward</b>			R
Section No. 3 Section 3 - Combined Staff Bill No. 1 Earthworks (Provisional) <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>Extra over all excavations for carting away</u></b>			
3/1/8	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	67
<b><u>Risk of collapse of excavations</u></b>			
3/1/9	Sides of trench and hole excavations not exceeding 15m deep	m2	279
<b><u>Keeping excavations free of water</u></b>			
3/1/10	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u></b>			
3/1/11	Under floors steps paving etc	m3	14
3/1/12	Backfilling to trenches holes etc	m3	21
<b><u>Compaction of surfaces</u></b>			
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	m2	67
3/1/14	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	30
3/1/15	Ditto but to bottom of trenches and bases	m2	45
<b><u>Prescribed density tests on filling</u></b>			
3/1/16	Modified AASHTO Density	No	4
<b><u>SOIL POISONING</u></b>			
Carried Forward			R
Section No. 3 Section 3 - Combined Staff Bill No. 1 Earthworks (Provisional) <b>Re-Solve Consulting</b>			

Brought Forward			R
	<b><u>Weedkiller mixed in accordance to supplier's specifications</u></b>		
3/1/17	To bottoms and sides of trenches etc.	m2	238
3/1/18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	126
	<b><u>Soil insecticide</u></b>		
3/1/19	To bottoms and sides of trenches etc	m2	238
3/1/20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	104
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Section 3 - Combined Staff			
Bill No. 1			
Earthworks (Provisional)			
<b>Re-Solve Consulting</b>			



Item No			Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>				
	<b><u>BILL NO. 2</u></b>				
	<b><u>CONCRETE FORMWORK AND REINFORCEMENT</u></b>				
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
	<b><u>UNREINFORCED CONCRETE ETC.</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
3/2/1	Surface blinding under footings and bases	m3	4		
3/2/2	Aprons cast in panels to falls	m3	2		
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	22		
	<b><u>25MPa/19mm concrete</u></b>				
3/2/5	Ramps	m3	5		
	<b><u>REINFORCED CONCRETE</u></b>				
	<b><u>25MPa/19mm concrete</u></b>				
3/2/6	Strip footings	m3	10		
3/2/7	Surface beds cast in panels on waterproofing.	m3	4		
3/2/8	Slabs (pits)	m3	4		
	<b>Carried Forward</b>			R	
	Section No. 3 Section 3 - Combined Staff Bill No. 2 Concrete, Formwork and Reinforcement <b>Re-Solve Consulting</b>				

Brought Forward			R
<b><u>TEST CUBES</u></b>			
3/2/9	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
<b><u>CONCRETE SUNDRIES</u></b>			
<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>			
3/2/10	Surface beds slabs etc	m2	78
3/2/11	Surface beds slabs etc (pits)	m2	25
3/2/12	Aprons to falls	m2	23
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>			
<b><u>Rough formwork to sides</u></b>			
3/2/13	Edges risers ends and reveals not exceeding 300mm high or wide	m	28
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>Fabric Reinforcement</u></b>			
3/2/14	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	92
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Section 3 - Combined Staff			
Bill No. 2			
Concrete, Formwork and Reinforcement			
<b>Re-Solve Consulting</b>			

[illegible]

Brought Forward			R
<b><u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b>			
3/3/2	Extra over brickwork for face brickwork in foundations	m2	6
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
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	86
<b><u>FACE BRICKWORK</u></b>			
3/3/6	Extra over brickwork for face brickwork	m2	76
3/3/7	Extra over brickwork for brick-on-edge header course lintel	m	9
3/3/8	220mm Wide sill set sloping and slightly protecting outside	m	9
3/3/9	Fair cutting fitting around pipe not exceeding 100mm	No	4
3/3/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	5
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
3/3/11	75mm Wide reinforcement built in horizontally	m	5
3/3/12	150mm Wide reinforcement built in horizontally	m	166
<b><u>Galvanised wire ties etc</u></b>			
3/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	31
<b>Carried Forward</b>			R
Section No. 3 Section 3 - Combined Staff Bill No. 3 Masonry <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>Turning pieces to lintels etc.</u></b>			
3/3/14	230mm Wide turning pieces	m	6
<b><u>Prestressed fabricated lintels</u></b>			
3/3/15	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	21
<b><u>Air bricks etc.</u></b>			
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 - Combined Staff			
Bill No. 3			
Masonry			
Re-Solve Consulting			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO.4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>			
3/4/1	In walls	m2	81	
	<b><u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>			
3/4/2	Under surface beds	m2	121	
3/4/3	Under aprons and ramps	m2	5	
	<b><u>FLOOR AND WALL SEALERS</u></b>			
	<b><u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u></b>			
3/4/4	Around steel windows and door frames	m	15	
	<b>Carried Forward to Summary of Section No. 3</b>		R	
	Section No. 3			
	Section 3 - Combined Staff			
	Bill No. 4			
	Waterproofing			
	<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO.5</u></b>				
<b><u>ROOF COVERINGS ETC</u></b>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
<b><u>06mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>				
3/5/1	Roof covering with pitch not exceeding 25 degrees	m2	44	
<b><u>ROOF AND WALL INSULATION</u></b>				
3/5/2	12" Thermal resistance sisalition laid on purlins	m2	44	
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>Aluminium Zinc Seamless Gutters</u></b>				
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	
<b>Carried Forward to Summary of Section No. 3</b>				
Section No. 3				
Section 3 - Combined Staff				
Bill No. 5				
Roof Coverings				
<b>Re-Solve Consulting</b>				

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>ROOFS ETC.</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
3/6/1	Design manufacture and deliver on site plate nailed roof truss construction to Ablutions Block size 10 047x 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	
3/6/2	Profit (As per rate build build up)	Item		
	<b>Carried Forward</b>		R	
	Section No. 3 Section 3 - Combined Staff Bill No. 6 Carpentry and Joinery <b>Re-Solve Consulting</b>			



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	
<b><u>Sawn softwood</u></b>			
3/6/4	38 x 114mm Wall plates	m	31
<b><u>Sundries</u></b>			
3/6/5	Two coats creosote on sawn timbers	m2	40
3/6/6	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	31
3/6/7	Hurricane clips	No	31
<b><u>EAVES VERGES ETC</u></b>			
<b><u>Pressed fibre-cement:</u></b>			
3/6/8	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	18
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
3/6/9	44mm framed ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	2
3/6/10	44mm framed ledged and braced door 813 x 1914mm high (door raised by 150mm from bottom) (D2)	No	3
3/6/11	44mm framed ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	2
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Section 3 - Combined Staff			
Bill No. 6			
Carpentry and Joinery			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>HINGES BOLTS ETC</u></b>			
	100mm Chrome plated "D" type handle 3 by solid brace hinges			
	<b><u>CATCHESCABIN HOOKS ETC</u></b>			
3/7/1	100mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<b><u>Approved</u></b>			
3/7/2	Three lever mortice lock set	No	4	
3/7/3	Indicator lock set	No	3	
3/7/4	Security double throw dead lock (no latch)	No	4	
	<b><u>HANDLES ETC.</u></b>			
	<b><u>Aluminium Pull Handle</u></b>			
3/7/5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	No	5	
	<b><u>SUNDRIES</u></b>			
	<b><u>ASSA ABLOY</u></b>			
3/7/6	38mm Diameter rubber door stop plugged	No	5	
	<b>Carried Forward</b>		R	
	Section No. 3 Section 3 - Combined Staff Bill No. 7 Ironmongery <b>Re-Solve Consulting</b>			

Brought Forward				R
<b><u>Vaal Paragon</u></b>				
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	
<b><u>LETTERS NAMEPLATES ETC</u></b>				
<b><u>Dorma:</u></b>				
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	
<b><u>BATHROOM FITTINGS</u></b>				
<b><u>Sundries</u></b>				
<b><u>Kimberley-Clark or Similar</u></b>				
3/7/12	SQ2 code 405607B white none lockable toilet roll holder	No	5	
<b><u>stainless Steel</u></b>				
3/7/13	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	1	
3/7/14	Brushed stainless steel body rust resistant she bin approximately 330 x 280 x 180mm etc	No	3	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3				
Section 3 - Combined Staff				
Bill No. 7				
Ironmongery				
<b>Re-Solve Consulting</b>				

Item No		Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO. 8</u></b>				
<b><u>METALWORK</u></b>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<b><u>WELDED SCREENS GATES ETC</u></b>				
<b><u>Gates to external doors</u></b>				
3/8/1	Purpose made square hollow section mild steel single security gate and frame size to fit standard door size 813 x 2032mm high	No	2	
3/8/2	Single gate and frame size to fit none standard door size approximately 915 x 2032mm high (disable)	No	2	
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>12mm Double rebated frames suitable for half brick walls</u></b>				
3/8/3	Frame for door size 813 x 1914mm high	No	3	
<b><u>12mm Double rebated frames suitable for one brick walls</u></b>				
3/8/4	Frame for door size 914 x 2032mm high	No	2	
<b><u>1.2mm Single rebate steel frame suitable for one brick wall</u></b>				
3/8/5	Frame for door size 813 x 2032mm high	No	2	
<b><u>STEEL WINDOWS DOORS ETC</u></b>				
<b>Carried Forward</b>				R
Section No. 3 Section 3 - Combined Staff Bill No. 8 Metalwork <b>Re-Solve Consulting</b>				

Brought Forward			R
<b><u>Nty steel or similar approved school windows with standard burglar bars formed of 20 x 5mm thick flat bars to all sashes</u></b>			
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	2
<b><u>Sundries</u></b>			
<b><u>Cage etc</u></b>			
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	3
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Section 3 - Combined Staff			
Bill No. 8			
Metalwork			
<b>Re-Solve Consulting</b>			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE(PROVISIONAL)</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal" or similar and approved</u></b>			
3/10/1	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	
	<b><u>SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS</u></b>			
3/10/2	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	
3/10/3	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, 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	
	<b>Carried Forward</b>		R	
	Section No. 3 Section 3 - Combined Staff Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>			

	Brought Forward			R
3/10/4	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	2	
	<b><u>PRECAST CONCRETE WASH HAND TROUGH</u></b>			
3/10/5	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	
	<b><u>SOIL DRAINAGE</u></b>			
	<b><u>uPVC pipes</u></b>			
3/10/6	110mm Pipes laid in and including trenches not exceeding 1m deep	m	25	
	<b><u>Extra over uPVC pipes for fittings</u></b>			
3/10/7	110mm Bend	No	5	
3/10/8	110mm Junction	No	5	
	<b><u>uPVC gulleys</u></b>			
3/10/9	110mm Gully not exceeding 750mm deep including excavations pre-cast concrete surround etc.	No	3	
	<b><u>TRAPS ETC</u></b>			
	<b><u>Marley</u></b>			
3/10/10	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	2	
	<b><u>TAPS VALVES ETC</u></b>			
3/10/11	Cobra Watertech 15mm gate valve plugged	No	1	
	<b>Carried Forward</b>			R
	Section No. 3 Section 3 - Combined Staff Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>			



Brought Forward			R
3/10/12	Cobra Watertech 15mm Elbow action pillar tap	No	2
<b><u>SANITARY PLUMBING</u></b>			
<b><u>uPVC pipes</u></b>			
3/10/13	50mm Pipes	m	15
<b><u>Extra over uPVC pipes for fittings</u></b>			
3/10/14	50mm Bend	No	3
3/10/15	50mm Access bend	No	11
3/10/16	50mm Junction	No	11
<b><u>WATER SUPPLIES</u></b>			
<b><u>Class 0 copper pipes</u></b>			
3/10/17	15mm Pipes	m	10
3/10/18	22mm Pipes	m	10
<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>			
3/10/19	15mm Fittings	No	1
3/10/20	22mm Pipes	No	5
<b><u>TESTING</u></b>			
3/10/21	Allow for testing all drains sanitary plumbing water supplies and installtion to the satisfaction of the Principle Agent.	Item	
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Section 3 - Combined Staff			
Bill No. 10			
Plumbing and Drainage (Provisional)			
<b>Re-Solve Consulting</b>			

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Brought Forward			R
<b><u>ON METAL</u></b>			
<b><u>Prime and paint undercoat and 2 finishing coats in gloss enamel colour TBC.</u></b>			
3/12/2	On door frames	m2	17
<b><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></b>			
3/12/3	On windows with burglar bars	m2	4
<b><u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u></b>			
3/12/4	On gates (Measured over the full flat area of both sides)	m2	10
<b><u>ON WOOD</u></b>			
<b><u>Under coat and minimum 2 coats gloss enamel colour TBC</u></b>			
3/12/5	On doors (External)	m2	4
3/12/6	On doors (Internal)	m2	5
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Section 3 - Combined Staff			
Bill No. 12			
Paintwork			
<b>Re-Solve Consulting</b>			

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<b>Brought Forward</b>			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>			
<b><u>SITE CLEARANCE ETC</u></b>			
<b><u>Site clearance</u></b>			
4/1/1	Digging up and removing rubbish debris vegetation hedges shrubs and trees not exceeding 200mm girth bush etc	m2	99
4/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	99
<b><u>EXCAVATION FILLING ETC</u></b>			
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
4/1/3	Trenches	m3	47
4/1/4	Pits	m3	52
4/1/5	Thickening under aprons	m3	1
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
4/1/6	Soft rock	m3	7
4/1/7	Hard rock	m3	3
<b>Carried Forward</b>			R
Section No. 4 Section 4 - Girls Toilet of 7 Bill No. 1 Earthworks (Provisional) <b>Re-Solve Consulting</b>			

**Brought Forward**

R

**Extra over all excavations for carting away**

4/1/8	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	78
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**Risk of collapse of excavations**

4/1/9	Sides of trench and hole excavations not exceeding 15m deep	m2	303
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**Keeping excavations free of water**

4/1/10	Keeping excavations free of all water other than subterranean water		Item
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**Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density**

4/1/11	Under floors steps paving etc	m3	14
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4/1/12	Backfilling to trenches holes etc	m3	20
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**Compaction of surfaces**

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	64
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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	35
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4/1/15	Ditto but to bottom of trenches and bases	m2	45
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**Prescribed density tests on filling**

4/1/16	Modified AASHTO Density	No	4
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**SOIL POISONING**

**Carried Forward**

R

Section No. 4  
Section 4 - Girls Toilet of 7  
Bill No. 1  
Earthworks (Provisional)  
**Re-Solve Consulting**



Brought Forward			R
	<b><u>Weedkiller mixed in accordance to supplier's specifications</u></b>		
4/1/17	To bottoms and sides of trenches etc.	m2	237
4/1/18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	129
	<b><u>Soil insecticide</u></b>		
4/1/19	To bottoms and sides of trenches etc	m2	237
4/1/20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	107
<b>Carried Forward to Summary of Section No. 4</b>			R
Section No. 4			
Section 4 - Girls Toilet of 7			
Bill No. 1			
Earthworks (Provisional)			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION 4</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>CONCRETE FORMWORK AND REINFORCEMENT</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>UNREINFORCED CONCRETE ETC.</u></b>			
	<b><u>15MPa/19mm concrete</u></b>			
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	28	
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	22	
	<b><u>25MPa/19mm concrete</u></b>			
4/2/5	Ramps	m3	2	
	<b><u>REINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
4/2/6	Strip footings	m3	10	
4/2/7	Surface beds cast in panels on waterproofing.	m3	4	
4/2/8	Slabs (pits)	m3	5	
	<b>Carried Forward</b>		R	
	Section No. 4 Section 4 - Girls Toilet of 7 Bill No. 2 Concrete, Formwork and Reinforcement <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>TEST CUBES</u></b>			
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
<b><u>CONCRETE SUNDRIES</u></b>			
<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>			
4/2/10	Surface beds slabs etc	m2	75
4/2/11	Surface beds slabs etc (pits)	m2	32
4/2/12	Aprons to falls	m2	22
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>			
<b><u>Rough formwork to sides</u></b>			
4/2/13	Edges risers ends and reveals not exceeding 300mm high or wide	m	28
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>Fabric Reinforcement</u></b>			
4/2/14	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	96
<b>Carried Forward to Summary of Section No. 4</b>			R
Section No. 4			
Section 4 - Girls Toilet of 7			
Bill No. 2			
Concrete, Formwork and Reinforcement			
<b>Re-Solve Consulting</b>			

Item No	Quantity	Rate	Amount
<b><u>SECTION NO.3</u></b>			
<b><u>BILL NO.3</u></b>			
<b><u>MASONRY</u></b>			
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
BRICKWORK			
Sizes in descriptions			
Where sizes in descriptions are given in brick units "one brick" shall represent the length and "half brick" the width of a brick			
<b><u>Face bricks</u></b>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Pointing			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed hollow recessed weathered pointing etc			
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
4/3/1	One brick walls	m2	77
<b><u>FACE BRICKWORK</u></b>			
<b>Carried Forward</b>			R
Section No. 4 Section 4 - Girls Toilet of 7 Bill No. 3 Masonry <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b>			
4/3/2	Extra over brickwork for face brickwork in foundations	m2	6
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
4/3/3	Half brick walls	m2	18
4/3/4	Half brick walls in beamfilling	m2	6
4/3/5	One brick walls	m2	72
<b><u>FACE BRICKWORK</u></b>			
4/3/6	Extra over brickwork for face brickwork	m2	68
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	8
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
4/3/11	75mm Wide reinforcement built in horizontally	m	18
4/3/12	150mm Wide reinforcement built in horizontally	m	151
<b><u>Galvanised wire ties etc</u></b>			
4/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	28
<b>Carried Forward</b>			R
Section No. 4 Section 4 - Girls Toilet of 7 Bill No. 3 Masonry <b>Re-Solve Consulting</b>			

Brought Forward		R
<b><u>Turning pieces to lintels etc.</u></b>		
230mm Wide turning pieces	m	7
<b><u>Prestressed fabricated lintels</u></b>		
110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	31
<b><u>Air bricks etc.</u></b>		
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 Toilet of 7		
Bill No. 3		
Masonry		
Re-Solve Consulting		

Item No		Quantity	Rate	Amount
	<b><u>SECTION 4</u></b>			
	<b><u>BILL NO.4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>			
4/4/1	In walls	m2	87	
	<b><u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>			
4/4/2	Under surface beds	m2	127	
4/4/3	Under aprons and ramps	m2	2	
	<b><u>FLOOR AND WALL SEALERS</u></b>			
	<b><u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u></b>			
4/4/4	Around steel windows and door frames	m	20	
	<b>Carried Forward to Summary of Section No. 4</b>		R	
	Section No. 4			
	Section 4 - Girls Toilet of 7			
	Bill No. 4			
	Waterproofing			
	<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
<b><u>SECTION 4</u></b>				
<b><u>BILL NO.5</u></b>				
<b><u>ROOF COVERINGS ETC</u></b>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
<b><u>06mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>				
4/5/1	Roof covering with pitch not exceeding 25 degrees	m2	43	
<b><u>ROOF AND WALL INSULATION</u></b>				
4/5/2	12" Thermal resistance sisalition laid on purlins	m2	43	
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>Aluminium Zinc Seamless Gutters</u></b>				
4/5/3	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	10	
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	
<b>Carried Forward to Summary of Section No. 4</b>				
Section No. 4				
Section 4 - Girls Toilet of 7				
Bill No. 5				
Roof Coverings				
<b>Re-Solve Consulting</b>				



Item No		Quantity	Rate	Amount
	<b><u>SECTION 4</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>ROOFS ETC.</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
4/6/1	Design manufacture and deliver on site plate nailed roof truss construction to Ablutions Block size 9 862 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	
4/6/2	Profit (As per rate build build up)	Item		
	<b>Carried Forward</b>		R	
	Section No. 4 Section 4 - Girls Toilet of 7 Bill No. 6 Carpentry and Joinery <b>Re-Solve Consulting</b>			

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	
<b><u>Sawn softwood</u></b>			
4/6/4	38 x 114mm Wall plates	m	28
<b><u>Sundries</u></b>			
4/6/5	Two coats creosote on sawn timbers	m2	39
4/6/6	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	28
4/6/7	Hurricane clips	No	28
<b><u>EAVES VERGES ETC</u></b>			
<b><u>Pressed fibre-cement:</u></b>			
4/6/8	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	18
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
4/6/9	44mm framed ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	2
4/6/10	44mm framed ledged and braced door 813 x 1914mm high (door raised by 150mm from bottom) (D2)	No	7
4/6/11	44mm framed ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	2
<b>Carried Forward to Summary of Section No. 4</b>			R
Section No. 4			
Section 4 - Girls Toilet of 7			
Bill No. 6			
Carpentry and Joinery			
<b>Re-Solve Consulting</b>			

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

Item No		Quantity	Rate	Amount
	<b><u>SECTION 4</u></b>			
	<b><u>BILL NO. 8</u></b>			
	<b><u>METALWORK</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>WELDED SCREENS GATES ETC</u></b>			
	<b><u>Gates to external doors</u></b>			
4/8/1	Purpose made square hollow section mild steel single security gate and frame size to fit standard door size 813 x 2032mm high	No 2		
4/8/2	Single gate and frame size to fit none standard door size approximately 915 x 2032mm high (disable)	No 1		
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b><u>12mm Double rebated frames suitable for half brick walls</u></b>			
4/8/3	Frame for door size 813 x 1914mm high	No 7		
	<b><u>12mm Double rebated frames suitable for one brick walls</u></b>			
4/8/4	Frame for door size 914 x 2032mm high	No 1		
	<b><u>1.2mm Single rebate steel frame suitable for one brick wall</u></b>			
4/8/5	Frame for door size 813 x 2032mm high	No 2		
	<b><u>STEEL WINDOWS DOORS ETC</u></b>			
<b>Carried Forward</b>			R	
Section No. 4 Section 4 - Girls Toilet of 7 Bill No. 8 Metalwork <b>Re-Solve Consulting</b>				

Brought Forward			R
<b><u>Nty steel or similar approved school windows with standard burglar bars formed of 20 x 5mm thick flat bars to all sashes</u></b>			
4/8/6	Window type NE1 size 533 x 654mm high	No	8
4/8/7	Window type NE7 size 1022 x 654mm high	No	3
<b><u>Sundries</u></b>			
<b><u>Cage etc</u></b>			
4/8/8	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	8
<b>Carried Forward to Summary of Section No. 4</b>			R
Section No. 4			
Section 4 - Girls Toilet of 7			
Bill No. 8			
Metalwork			
<b>Re-Solve Consulting</b>			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 4</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE(PROVISIONAL)</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal" or similar and approved</u></b>			
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	
	<b><u>SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS</u></b>			
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, 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	7	
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, 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	
	<b>Carried Forward</b>		R	
	Section No. 4 Section 4 - Girls Toilet of 7 Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>			



		Brought Forward			R
		<b><u>PRECAST CONCRETE WASH HAND TROUGH</u></b>			
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	2		
		<b><u>SOIL DRAINAGE</u></b>			
		<b><u>uPVC pipes</u></b>			
4/10/5	110mm Pipes laid in and including trenches not exceeding 1m deep	m	40		
		<b><u>Extra over uPVC pipes for fittings</u></b>			
4/10/6	110mm Bend	No	8		
4/10/7	110mm Junction	No	8		
		<b><u>uPVC gulleys</u></b>			
4/10/8	110mm Gully not exceeding 750mm deep including excavations pre-cast concrete surround etc.	No	3		
		<b><u>TRAPS ETC</u></b>			
		<b><u>Marley</u></b>			
4/10/9	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	2		
		<b><u>TAPS VALVES ETC</u></b>			
4/10/10	Cobra Watertech 15mm gate valve plugged	No	1		
4/10/11	Cobra Watertech 15mm Elbow action pillar tap	No	2		
		<b><u>SANITARY PLUMBING</u></b>			
		<b><u>uPVC pipes</u></b>			
4/10/12	50mm Pipes	m	5		
		<b>Carried Forward</b>			R
	Section No. 4 Section 4 - Girls Toilet of 7 Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>				

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Brought Forward			R
<b><u>ON METAL</u></b>			
<b><u>Prime and paint undercoat and 2 finishing coats in gloss enamel colour TBC.</u></b>			
4/12/2	On door frames	m2	29
<b><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></b>			
4/12/3	On windows with burglar bars	m2	5
<b><u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u></b>			
4/12/4	On gates (Measured over the full flat area of both sides)	m2	10
<b><u>ON WOOD</u></b>			
<b><u>Under coat and minimum 2 coats gloss enamel colour TBC</u></b>			
4/12/5	On doors (External)	m2	4
4/12/6	On doors (Internal)	m2	11
<b>Carried Forward to Summary of Section No. 4</b>			R
Section No. 4			
Section 4 - Girls Toilet of 7			
Bill No. 12			
Paintwork			
<b>Re-Solve Consulting</b>			

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# BILL NO. 1

For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades

### Nature of ground

### Nature of ground

**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**

### Carting away of excavated material

**Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or alternatively from stock piles situated on the building site**

## Filling

**Carried Forward**

R

-79-

		Brought Forward		R
<p><b><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></b></p>				
<p><b><u>Soil poisoning</u></b></p>				
<p><b><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></b></p>				
<p><b><u>SITE CLEARANCE ETC</u></b></p>				
<p><b><u>Site clearance</u></b></p>				
5/1/1	Digging up and removing rubbish debris vegetation hedges shrubs and trees not exceeding 200mm girth bush etc	m2	93	
5/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	93	
<p><b><u>EXCAVATION FILLING ETC</u></b></p>				
<p><b><u>Excavation in earth not exceeding 2m deep</u></b></p>				
5/1/3	Trenches	m3	44	
5/1/4	Pits	m3	40	
5/1/5	Thickening under aprons	m3	1	
<p><b><u>Extra over trench and hole excavations in earth for excavation in</u></b></p>				
5/1/6	Soft rock	m3	6	
5/1/7	Hard rock	m3	3	
		Carried Forward		R
<p>Section No. 5 Section 5- Boys Toilet of 4 Bill No. 1 Earthworks (Provisional) <b>Re-Solve Consulting</b></p>				



Brought Forward			R
<b><u>Extra over all excavations for carting away</u></b>			
5/1/8	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	65
<b><u>Risk of collapse of excavations</u></b>			
5/1/9	Sides of trench and hole excavations not exceeding 15m deep	m2	267
<b><u>Keeping excavations free of water</u></b>			
5/1/10	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u></b>			
5/1/11	Under floors steps paving etc	m3	13
5/1/12	Backfilling to trenches holes etc	m3	19
<b><u>Compaction of surfaces</u></b>			
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	64
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	28
5/1/15	Ditto but to bottom of trenches and bases	m2	42
<b><u>Prescribed density tests on filling</u></b>			
5/1/16	Modified AASHTO Density	No	4
<b><u>SOIL POISONING</u></b>			
Carried Forward			R
Section No. 5 Section 5- Boys Toilet of 4 Bill No. 1 Earthworks (Provisional) Re-Solve Consulting			

Brought Forward			R
<b><u>Weedkiller mixed in accordance to supplier's specifications</u></b>			
5/1/17	To bottoms and sides of trenches etc.	m2	224
5/1/18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	123
<b><u>Soil insecticide</u></b>			
5/1/19	To bottoms and sides of trenches etc	m2	224
5/1/20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	100
<b>Carried Forward to Summary of Section No. 5</b>			R
Section No. 5			
Section 5- Boys Toilet of 4			
Bill No. 1			
Earthworks (Provisional)			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>CONCRETE FORMWORK AND REINFORCEMENT</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>UNREINFORCED CONCRETE ETC.</u></b>			
	<b><u>15MPa/19mm concrete</u></b>			
5/2/1	Surface blinding under footings and bases	m3	3	
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	28	
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	23	
	<b><u>25MPa/19mm concrete</u></b>			
5/2/5	Ramps	m3	2	
	<b><u>REINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
5/2/6	Strip footings	m3	9	
5/2/7	Surface beds cast in panels on waterproofing.	m3	4	
5/2/8	Slabs (pits)	m3	4	
	<b>Carried Forward</b>		R	
	Section No. 5 Section 5- Boys Toilet of 4 Bill No. 2 Concrete, Formwork and Reinforcement <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>TEST CUBES</u></b>			
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
<b><u>CONCRETE SUNDRIES</u></b>			
<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>			
5/2/10	Surface beds slabs etc	m2	74
5/2/11	Surface beds slabs etc (pits)	m2	25
5/2/12	Aprons to falls	m2	23
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>			
<b><u>Rough formwork to sides</u></b>			
5/2/13	Edges risers ends and reveals not exceeding 300mm high or wide	m	28
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>Fabric Reinforcement</u></b>			
5/2/14	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	90
<b>Carried Forward to Summary of Section No. 5</b>			R
Section No. 5			
Section 5- Boys Toilet of 4			
Bill No. 2			
Concrete, Formwork and Reinforcement			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO.3</u></b></p> <p><b><u>BILL NO.3</u></b></p> <p><b><u>MASONRY</u></b></p> <p>For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>BRICKWORK</p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units "one brick" shall represent the length and "half brick" the width of a brick</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p>Pointing</p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed hollow recessed weathered pointing etc</p> <p><b><u>FOUNDATIONS (PROVISIONAL)</u></b></p> <p><b><u>Brickwork of NFP bricks in class II mortar</u></b></p>			
5/3/1	One brick walls	m2	73	
	<p><b><u>FACE BRICKWORK</u></b></p>			
	<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 5 Section 5- Boys Toilet of 4 Bill No. 3 Masonry <b>Re-Solve Consulting</b></p>		R	

Brought Forward			R
<b><u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b>			
5/3/2	Extra over brickwork for face brickwork in foundations	m2	6
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
5/3/3	Half brick walls	m2	13
5/3/4	Half brick walls in beamfilling	m2	6
5/3/5	One brick walls	m2	79
<b><u>FACE BRICKWORK</u></b>			
5/3/6	Extra over brickwork for face brickwork	m2	75
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	6
5/3/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	5
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
5/3/11	75mm Wide reinforcement built in horizontally	m	13
5/3/12	150mm Wide reinforcement built in horizontally	m	153
<b><u>Galvanised wire ties etc</u></b>			
5/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	30
<b>Carried Forward</b>			R
Section No. 5 Section 5- Boys Toilet of 4 Bill No. 3 Masonry <b>Re-Solve Consulting</b>			

Brought Forward		R
<b><u>Turning pieces to lintels etc.</u></b>		
230mm Wide turning pieces	m	7
<b><u>Prestressed fabricated lintels</u></b>		
110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	24
<b><u>Air bricks etc.</u></b>		
230 x 152mm terra-cotta vermin proofed louvered air brick	No	4
Carried Forward to Summary of Section No. 5		R
Section No. 5		
Section 5- Boys Toilet of 4		
Bill No. 3		
Masonry		
Re-Solve Consulting		

Item No		Quantity	Rate	Amount
	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO.4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>			
5/4/1	In walls	m2	89	
	<b><u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>			
5/4/2	Under surface beds	m2	120	
5/4/3	Under aprons and ramps	m2	2	
	<b><u>FLOOR AND WALL SEALERS</u></b>			
	<b><u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u></b>			
5/4/4	Around steel windows and door frames	m	17	
	<b>Carried Forward to Summary of Section No. 5</b>		R	
	Section No. 5			
	Section 5- Boys Toilet of 4			
	Bill No. 4			
	Waterproofing			
	<b>Re-Solve Consulting</b>			



Item No		Quantity	Rate	Amount
<b><u>SECTION 5</u></b>				
<b><u>BILL NO.5</u></b>				
<b><u>ROOF COVERINGS ETC</u></b>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
<b><u>06mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>				
5/5/1	Roof covering with pitch not exceeding 25 degrees	m2	43	
<b><u>ROOF AND WALL INSULATION</u></b>				
5/5/2	12" Thermal resistance sisalition laid on purlins	m2	43	
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>Aluminium Zinc Seamless Gutters</u></b>				
5/5/3	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	10	
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	
<b>Carried Forward to Summary of Section No. 5</b>				
Section No. 5 Section 5- Boys Toilet of 4 Bill No. 5 Roof Coverings <b>Re-Solve Consulting</b>				

Item No		Quantity	Rate	Amount
	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>ROOFS ETC.</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
5/6/1	Design manufacture and deliver on site plate nailed roof truss construction to Ablutions Block size 9 649 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	
5/6/2	Profit (As per rate build build up)	Item		
	<b>Carried Forward</b>		R	
	Section No. 5 Section 5- Boys Toilet of 4 Bill No. 6 Carpentry and Joinery <b>Re-Solve Consulting</b>			

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	
<b><u>Sawn softwood</u></b>			
5/6/4	38 x 114mm Wall plates	m	30
<b><u>Sundries</u></b>			
5/6/5	Two coats creosote on sawn timbers	m2	39
5/6/6	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	30
5/6/7	Hurricane clips	No	30
<b><u>EAVES VERGES ETC</u></b>			
<b><u>Pressed fibre-cement:</u></b>			
5/6/8	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	14
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
5/6/9	44mm framed ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	2
5/6/10	44mm framed ledged and braced door 813 x 1914mm high (door raised by 150mm from bottom) (D2)	No	4
5/6/11	44mm framed ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	1
<b>Carried Forward to Summary of Section No. 5</b>			R
Section No. 5			
Section 5- Boys Toilet of 4			
Bill No. 6			
Carpentry and Joinery			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>HINGES BOLTS ETC</u></b>			
	100mm Chrome plated "D" type handle 3 by solid brace hinges			
	<b><u>CATCHESCABIN HOOKS ETC</u></b>			
5/7/1	100mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<b><u>Approved</u></b>			
5/7/2	Three lever mortice lock set	No	3	
5/7/3	Indicator lock set	No	4	
5/7/4	Security double throw dead lock (no latch)	No	3	
	<b><u>HANDLES ETC.</u></b>			
	<b><u>Aluminium Pull Handle</u></b>			
5/7/5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	No	6	
	<b><u>SUNDRIES</u></b>			
	<b><u>ASSA ABLOY</u></b>			
5/7/6	38mm Diameter rubber door stop plugged	No	6	
	<b>Carried Forward</b>		R	
	Section No. 5 Section 5- Boys Toilet of 4 Bill No. 7 Ironmongery <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>Vaal Paragon</u></b>			
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
<b><u>LETTERS NAMEPLATES ETC</u></b>			
<b><u>Dorma:</u></b>			
5/7/9	DSS-130 Engraved "Male" information sign plugged	No	2
5/7/10	DSS-133 Engraved "Disabled" information sign plugged	No	1
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>Sundries</u></b>			
<b><u>Kimberley-Clark or Similar</u></b>			
5/7/11	SQ2 code 405607B white none lockable toilet roll holder	No	5
<b><u>stainless Steel</u></b>			
5/7/12	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	1
<b>Carried Forward to Summary of Section No. 5</b>			R
Section No. 5			
Section 5- Boys Toilet of 4			
Bill No. 7			
Ironmongery			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
<b><u>SECTION 5</u></b>				
<b><u>BILL NO. 8</u></b>				
<b><u>METALWORK</u></b>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<b><u>WELDED SCREENS GATES ETC</u></b>				
<b><u>Gates to external doors</u></b>				
5/8/1	Purpose made square hollow section mild steel single security gate and frame size to fit standard door size 813 x 2032mm high	No	3	
5/8/2	Single gate and frame size to fit none standard door size approximately 915 x 2032mm high (disable)	No	3	
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>12mm Double rebated frames suitable for half brick walls</u></b>				
5/8/3	Frame for door size 813 x 1914mm high	No	4	
<b><u>12mm Double rebated frames suitable for one brick walls</u></b>				
5/8/4	Frame for door size 914 x 2032mm high	No	1	
<b><u>1.2mm Single rebate steel frame suitable for one brick wall</u></b>				
5/8/5	Frame for door size 813 x 2032mm high	No	2	
<b><u>STEEL WINDOWS DOORS ETC</u></b>				
<b>Carried Forward</b>				R
Section No. 5 Section 5- Boys Toilet of 4 Bill No. 8 Metalwork <b>Re-Solve Consulting</b>				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE(PROVISIONAL)</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal" or similar and approved</u></b>			
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	
	<b><u>SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS</u></b>			
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 "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	5	
	<b>Carried Forward</b>		R	
	Section No. 5 Section 5- Boys Toilet of 4 Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>			

	Brought Forward			R
5/10/4	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	
	<b><u>PRECAST CONCRETE WASH HAND TROUGH</u></b>			
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	
	<b><u>SOIL DRAINAGE</u></b>			
	<b><u>uPVC pipes</u></b>			
5/10/6	110mm Pipes laid in and including trenches not exceeding 1m deep	m	25	
	<b><u>Extra over uPVC pipes for fittings</u></b>			
5/10/7	110mm Bend	No	5	
5/10/8	110mm Junction	No	5	
	<b><u>uPVC gulleys</u></b>			
5/10/9	110mm Gully not exceeding 750mm deep including excavations pre-cast concrete surround etc.	No	3	
	<b><u>TRAPS ETC</u></b>			
	<b><u>Marley</u></b>			
5/10/10	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	2	
	<b>Carried Forward</b>			R
	Section No. 5 Section 5- Boys Toilet of 4 Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>			

		Brought Forward		R
	<b><u>TAPS VALVES ETC</u></b>			
5/10/11	Cobra Watertech 15mm gate valve plugged	No	1	
5/10/12	Cobra Watertech 15mm Elbow action pillar tap	No	2	
	<b><u>SANITARY PLUMBING</u></b>			
	<b><u>uPVC pipes</u></b>			
5/10/13	50mm Pipes	m	30	
	<b><u>Extra over uPVC pipes for fittings</u></b>			
5/10/14	50mm Bend	No	6	
5/10/15	50mm Access bend	No	26	
5/10/16	50mm Junction	No	26	
	<b><u>WATER SUPPLIES</u></b>			
	<b><u>Class 0 copper pipes</u></b>			
5/10/17	15mm Pipes	m	10	
5/10/18	22mm Pipes	m	10	
	<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>			
5/10/19	15mm Fittings	No	1	
5/10/20	22mm Pipes	No	5	
	<b><u>TESTING</u></b>			
5/10/21	Allow for testing all drains sanitary plumbing water supplies and installtion to the satisfaction of the Principle Agent.		Item	
	<b>Carried Forward to Summary of Section No. 5</b>			R
	Section No. 5			
	Section 5- Boys Toilet of 4			
	Bill No. 10			
	Plumbing and Drainage (Provisional)			
	<b>Re-Solve Consulting</b>			

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Brought Forward			R
<b><u>ON METAL</u></b>			
<b><u>Prime and paint undercoat and 2 finishing coats in gloss enamel colour TBC.</u></b>			
5/12/2	On door frames	m2	20
<b><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></b>			
5/12/3	On windows with burglar bars	m2	5
<b><u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u></b>			
5/12/4	On gates (Measured over the full flat area of both sides)	m2	10
<b><u>ON WOOD</u></b>			
<b><u>Under coat and minimum 2 coats gloss enamel colour TBC</u></b>			
5/12/5	On doors (External)	m2	4
5/12/6	On doors (Internal)	m2	6
<b>Carried Forward to Summary of Section No. 5</b>			R
Section No. 5			
Section 5- Boys Toilet of 4			
Bill No. 12			
Paintwork			
<b>Re-Solve Consulting</b>			

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		Brought Forward			R
<p><b><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></b></p> <p><b><u>Soil poisoning</u></b></p> <p><b><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></b></p> <p><b><u>SITE CLEARANCE ETC</u></b></p> <p><b><u>Site clearance</u></b></p>					
6/1/1	Digging up and removing rubbish debris vegetation hedges shrubs and trees not exceeding 200mm girth bush etc	m2	62		
6/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	62		
<p><b><u>EXCAVATION FILLING ETC</u></b></p> <p><b><u>Excavation in earth not exceeding 2m deep</u></b></p>					
6/1/3	Trenches	m3	26		
6/1/4	Pits	m3	29		
6/1/5	Thickening under aprons	m3	0.4		
<p><b><u>Extra over trench and hole excavations in earth for excavation in</u></b></p>					
6/1/6	Soft rock	m3	4		
6/1/7	Hard rock	m3	2		
		Carried Forward			R
<p>Section No. 6  Section 6 - Grade R G3  Bill No. 1  Earthworks (Provisional)  <b>Re-Solve Consulting</b></p>					

Brought Forward				R
<b><u>Extra over all excavations for carting away</u></b>				
6/1/8	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	43	
<b><u>Risk of collapse of excavations</u></b>				
6/1/9	Sides of trench and hole excavations not exceeding 15m deep	m2	168	
<b><u>Keeping excavations free of water</u></b>				
6/1/10	Keeping excavations free of all water other than subterranean water		Item	
<b><u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u></b>				
6/1/11	Under floors steps paving etc	m3	9	
6/1/12	Backfilling to trenches holes etc	m3	11	
<b><u>Compaction of surfaces</u></b>				
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	43	
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	20	
6/1/15	Ditto but to bottom of trenches and bases	m2	25	
<b><u>Prescribed density tests on filling</u></b>				
6/1/16	Modified AASHTO Density	No	4	
<b><u>SOIL POISONING</u></b>				
<b>Carried Forward</b>				R
Section No. 6 Section 6 - Grade R G3 Bill No. 1 Earthworks (Provisional) <b>Re-Solve Consulting</b>				

Brought Forward			R
<b><u>Weedkiller mixed in accordance to supplier's specifications</u></b>			
6/1/17	To bottoms and sides of trenches etc.	m2	132
6/1/18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	79
<b><u>Soil insecticide</u></b>			
6/1/19	To bottoms and sides of trenches etc	m2	132
6/1/20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	60
<b>Carried Forward to Summary of Section No. 6</b>			R
Section No. 6			
Section 6 - Grade R G3			
Bill No. 1			
Earthworks (Provisional)			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>CONCRETE FORMWORK AND REINFORCEMENT</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>UNREINFORCED CONCRETE ETC.</u></b>			
	<b><u>15MPa/19mm concrete</u></b>			
6/2/1	Surface blinding under footings and bases	m3	2	
6/2/2	Aprons cast in panels to falls	m3	2	
6/2/3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation backfilling etc	m	19	
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	17	
	<b><u>25MPa/19mm concrete</u></b>			
6/2/5	Ramps	m3	2	
	<b><u>REINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
6/2/6	Strip footings	m3	5	
6/2/7	Surface beds cast in panels on waterproofing.	m3	2	
6/2/8	Slabs (pits)	m3	3	
	<b>Carried Forward</b>		R	
	Section No. 6 Section 6 - Grade R G3 Bill No. 2 Concrete, Formwork and Reinforcement <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>TEST CUBES</u></b>			
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
<b><u>CONCRETE SUNDRIES</u></b>			
<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>			
6/2/10	Surface beds slabs etc	m2	42
6/2/11	Surface beds slabs etc (pits)	m2	18
6/2/12	Aprons to falls	m2	19
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>			
<b><u>Rough formwork to sides</u></b>			
6/2/13	Edges risers ends and reveals not exceeding 300mm high or wide	m	19
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>Fabric Reinforcement</u></b>			
6/2/14	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	61
<b>Carried Forward to Summary of Section No. 6</b>			R
Section No. 6			
Section 6 - Grade R G3			
Bill No. 2			
Concrete, Formwork and Reinforcement			
<b>Re-Solve Consulting</b>			

Item No	Quantity	Rate	Amount
<b><u>SECTION NO.3</u></b>			
<b><u>BILL NO.3</u></b>			
<b><u>MASONRY</u></b>			
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
BRICKWORK			
Sizes in descriptions			
Where sizes in descriptions are given in brick units "one brick" shall represent the length and "half brick" the width of a brick			
<b><u>Face bricks</u></b>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Pointing			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed hollow recessed weathered pointing etc			
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
6/3/1	One brick walls	m2	43
<b><u>FACE BRICKWORK</u></b>			
Carried Forward			R
Section No. 6 Section 6 - Grade R G3 Bill No. 3 Masonry <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b>			
6/3/2	Extra over brickwork for face brickwork in foundations	m2	4
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
6/3/3	Half brick walls	m2	2
6/3/4	Half brick walls in beamfilling	m2	4
6/3/5	One brick walls	m2	50
<b><u>FACE BRICKWORK</u></b>			
6/3/6	Extra over brickwork for face brickwork	m2	47
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	1
6/3/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	4
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
6/3/11	75mm Wide reinforcement built in horizontally	m	2
6/3/12	150mm Wide reinforcement built in horizontally	m	94
<b><u>Galvanised wire ties etc</u></b>			
6/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	19
<b>Carried Forward</b>			R
Section No. 6 Section 6 - Grade R G3 Bill No. 3 Masonry <b>Re-Solve Consulting</b>			

Brought Forward		R
<b><u>Turning pieces to lintels etc.</u></b>		
115mm Wide turning pieces	m	4
230mm Wide turning pieces	m	4
<b><u>Prestressed fabricated lintels</u></b>		
110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	8
<b><u>Air bricks etc.</u></b>		
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 - Grade R G3		
Bill No. 3		
Masonry		
Re-Solve Consulting		



Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO.4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>			
6/4/1	In walls	m2	47	
	<b><u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>			
6/4/2	Under surface beds	m2	76	
6/4/3	Under aprons and ramps	m2	2	
	<b><u>FLOOR AND WALL SEALERS</u></b>			
	<b><u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u></b>			
6/4/4	Around steel windows and door frames	m	7	
	<b>Carried Forward to Summary of Section No. 6</b>		R	
	Section No. 6			
	Section 6 - Grade R G3			
	Bill No. 4			
	Waterproofing			
	<b>Re-Solve Consulting</b>			



Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>ROOFS ETC.</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
6/6/1	Design manufacture and deliver on site plate nailed roof truss construction to Ablutions Block size 5 585 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		
	<b>Carried Forward</b>		R	
	Section No. 6 Section 6 - Grade R G3 Bill No. 6 Carpentry and Joinery <b>Re-Solve Consulting</b>			

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	
<b><u>Sawn softwood</u></b>			
6/6/4	38 x 114mm Wall plates	m	19
<b><u>Sundries</u></b>			
6/6/5	Two coats creosote on sawn timbers	m2	22
6/6/6	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	19
6/6/7	Hurricane clips	No	19
<b><u>EAVES VERGES ETC</u></b>			
<b><u>Pressed fibre-cement:</u></b>			
6/6/8	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	13
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
6/6/9	44mm framed ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	1
6/6/10	44mm framed ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	1
<b>Carried Forward to Summary of Section No. 6</b>			R
Section No. 6			
Section 6 - Grade R G3			
Bill No. 6			
Carpentry and Joinery			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>HINGES BOLTS ETC</u></b>			
	100mm Chrome plated "D" type handle 3 by solid brace hinges			
	<b><u>CATCHESCABIN HOOKS ETC</u></b>			
6/7/1	100mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1	
	<b><u>LOCKS</u></b>			
	<b><u>Approved</u></b>			
6/7/2	Three lever mortice lock set	No	3	
6/7/3	Security double throw dead lock (no latch)	No	2	
	<b><u>HANDLES ETC.</u></b>			
	<b><u>Aluminium Pull Handle</u></b>			
6/7/4	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	No	1	
	<b><u>SUNDRIES</u></b>			
	<b><u>ASSA ABLOY</u></b>			
6/7/5	38mm Diameter rubber door stop plugged	No	1	
	<b>Carried Forward</b>		R	
	Section No. 6 Section 6 - Grade R G3 Bill No. 7 Ironmongery <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>Vaal Paragon</u></b>			
6/7/6	32mm Type 9 back grab rail 800mm long plugged	No	1
6/7/7	32mm Type 8 side grab rail 900mm girth plugged	No	1
<b><u>LETTERS NAMEPLATES ETC</u></b>			
<b><u>Dorma:</u></b>			
6/7/8	DSS-130 Engraved "Female" information sign plugged	No	1
6/7/9	DSS-133 Engraved "Disabled" information sign plugged	No	1
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>Sundries</u></b>			
<b><u>Kimberley-Clark or Similar</u></b>			
6/7/10	SQ2 code 405607B white none lockable toilet roll holder	No	4
<b><u>stainless Steel</u></b>			
6/7/11	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	1
<b>Carried Forward to Summary of Section No. 6</b>			R
Section No. 6			
Section 6 - Grade R G3			
Bill No. 7			
Ironmongery			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
<b><u>SECTION 6</u></b>				
<b><u>BILL NO. 8</u></b>				
<b><u>METALWORK</u></b>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<b><u>WELDED SCREENS GATES ETC</u></b>				
<b><u>Gates to external doors</u></b>				
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	2	
6/8/2	Single gate and frame size to fit none standard door size approximately 915 x 2032mm high (disable)	No	2	
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>12mm Double rebated frames suitable for one brick walls</u></b>				
6/8/3	Frame for door size 914 x 2032mm high	No	1	
<b><u>1.2mm Single rebate steel frame suitable for one brick wall</u></b>				
6/8/4	Frame for door size 813 x 2032mm high	No	1	
<b><u>STEEL WINDOWS DOORS ETC</u></b>				
<b><u>Nty steel or similar approved school windows with standard burlgar bars formed of 20 x 5mm thick flat bars to all sashes</u></b>				
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	
<b>Carried Forward to Summary of Section No. 6</b>				R
Section No. 6 Section 6 - Grade R G3 Bill No. 8 Metalwork <b>Re-Solve Consulting</b>				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE(PROVISIONAL)</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal" or similar and approved</u></b>			
6/10/1	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	
	<b><u>SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS</u></b>			
6/10/2	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	3	
6/10/3	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, 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	
	<b>Carried Forward</b>		R	
	Section No. 6 Section 6 - Grade R G3 Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>PRECAST CONCRETE WASH HAND TROUGH</u></b>			
6/10/4	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	1
<b><u>SOIL DRAINAGE</u></b>			
<b><u>uPVC pipes</u></b>			
6/10/5	110mm Pipes laid in and including trenches not exceeding 1m deep	m	20
<b><u>Extra over uPVC pipes for fittings</u></b>			
6/10/6	110mm Bend	No	4
6/10/7	110mm Junction	No	4
<b><u>uPVC gulleys</u></b>			
6/10/8	110mm Gully not exceeding 750mm deep including excavations pre-cast concrete surround etc.	No	2
<b><u>TRAPS ETC</u></b>			
<b><u>Marley</u></b>			
6/10/9	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	2
<b><u>TAPS VALVES ETC</u></b>			
6/10/10	Cobra Watertech 15mm gate valve plugged	No	1
6/10/11	Cobra Watertech 15mm Elbow action pillar tap	No	1
<b><u>SANITARY PLUMBING</u></b>			
<b><u>uPVC pipes</u></b>			
6/10/12	50mm Pipes	m	20
Carried Forward			R
Section No. 6 Section 6 - Grade R G3 Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>			



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Brought Forward			R
<b><u>ON METAL</u></b>			
<b><u>Prime and paint undercoat and 2 finishing coats in gloss enamel colour TBC.</u></b>			
6/12/2	On door frames	m2	4
<b><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></b>			
6/12/3	On windows with burglar bars	m2	3
<b><u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u></b>			
6/12/4	On gates (Measured over the full flat area of both sides)	m2	7
<b><u>ON WOOD</u></b>			
<b><u>Under coat and minimum 2 coats gloss enamel colour TBC</u></b>			
6/12/5	On doors (External)	m2	2
<b>Carried Forward to Summary of Section No. 6</b>			R
Section No. 6			
Section 6 - Grade R G3			
Bill No. 12			
Paintwork			
<b>Re-Solve Consulting</b>			

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		Brought Forward			R
<p><b><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></b></p>					
<p><b><u>Soil poisoning</u></b></p>					
<p><b><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></b></p>					
<p><b><u>SITE CLEARANCE ETC</u></b></p>					
<p><b><u>Site clearance</u></b></p>					
7/1/1	Digging up and removing rubbish debris vegetation hedges shrubs and trees not exceeding 200mm girth bush etc	m2	53		
7/1/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	53		
<p><b><u>EXCAVATION FILLING ETC</u></b></p>					
<p><b><u>Excavation in earth not exceeding 2m deep</u></b></p>					
7/1/3	Trenches	m3	25		
7/1/4	Pits	m3	23		
7/1/5	Thickening under aprons	m3	0.3		
<p><b><u>Extra over trench and hole excavations in earth for excavation in</u></b></p>					
7/1/6	Soft rock	m3	3		
7/1/7	Hard rock	m3	2		
		Carried Forward			R
<p>Section No. 7  Section 7 - Grade R B1  Bill No. 1  Earthworks (Provisional)  <b>Re-Solve Consulting</b></p>					

Brought Forward			R
<b><u>Extra over all excavations for carting away</u></b>			
7/1/8	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	37
<b><u>Risk of collapse of excavations</u></b>			
7/1/9	Sides of trench and hole excavations not exceeding 15m deep	m2	149
<b><u>Keeping excavations free of water</u></b>			
7/1/10	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u></b>			
7/1/11	Under floors steps paving etc	m3	8
7/1/12	Backfilling to trenches holes etc	m3	11
<b><u>Compaction of surfaces</u></b>			
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	m2	38
7/1/14	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	17
7/1/15	Ditto but to bottom of trenches and bases	m2	25
<b><u>Prescribed density tests on filling</u></b>			
7/1/16	Modified AASHTO Density	No	4
<b><u>SOIL POISONING</u></b>			
Carried Forward			R
Section No. 7 Section 7 - Grade R B1 Bill No. 1 Earthworks (Provisional) <b>Re-Solve Consulting</b>			

Brought Forward			R
	<b><u>Weedkiller mixed in accordance to supplier's specifications</u></b>		
7/1/17	To bottoms and sides of trenches etc.	m2	124
7/1/18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	66
	<b><u>Soil insecticide</u></b>		
7/1/19	To bottoms and sides of trenches etc	m2	124
7/1/20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc filling in furrows and ramming(pits)	m2	49
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7			
Section 7 - Grade R B1			
Bill No. 1			
Earthworks (Provisional)			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>CONCRETE FORMWORK AND REINFORCEMENT</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>UNREINFORCED CONCRETE ETC.</u></b>			
	<b><u>15MPa/19mm concrete</u></b>			
7/2/1	Surface blinding under footings and bases	m3	2	
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	17	
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	16	
	<b><u>25MPa/19mm concrete</u></b>			
7/2/5	Ramps	m3	2	
	<b><u>REINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
7/2/6	Strip footings	m3	5	
7/2/7	Surface beds cast in panels on waterproofing.	m3	2	
7/2/8	Slabs (pits)	m3	2	
	<b>Carried Forward</b>		R	
	Section No. 7 Section 7 - Grade R B1 Bill No. 2 Concrete, Formwork and Reinforcement <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>TEST CUBES</u></b>			
7/2/9	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
<b><u>CONCRETE SUNDRIES</u></b>			
<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>			
7/2/10	Surface beds slabs etc	m2	34
7/2/11	Surface beds slabs etc (pits)	m2	14
7/2/12	Aprons to falls	m2	18
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>			
<b><u>Rough formwork to sides</u></b>			
7/2/13	Edges risers ends and reveals not exceeding 300mm high or wide	m	17
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>Fabric Reinforcement</u></b>			
7/2/14	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds etc.	m2	52
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7			
Section 7 - Grade R B1			
Bill No. 2			
Concrete, Formwork and Reinforcement			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO.3</u></b></p> <p><b><u>BILL NO.3</u></b></p> <p><b><u>MASONRY</u></b></p> <p>For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>BRICKWORK</p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units "one brick" shall represent the length and "half brick" the width of a brick</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p>Pointing</p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed hollow recessed weathered pointing etc</p> <p><b><u>FOUNDATIONS (PROVISIONAL)</u></b></p> <p><b><u>Brickwork of NFP bricks in class II mortar</u></b></p>			
7/3/1	One brick walls	m2	40	
	<p><b><u>FACE BRICKWORK</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 7            Section 7 - Grade R B1            Bill No. 3            Masonry  <b>Re-Solve Consulting</b></p>			

Brought Forward			R
<b><u>Face bricks (purchase price of R5 000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b>			
7/3/2	Extra over brickwork for face brickwork in foundations	m2	4
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
7/3/3	Half brick walls	m2	1
7/3/4	Half brick walls in beamfilling	m2	4
7/3/5	One brick walls	m2	52
<b><u>FACE BRICKWORK</u></b>			
7/3/6	Extra over brickwork for face brickwork	m2	49
7/3/7	Extra over brickwork for brick-on-edge header course lintel	m	5
7/3/8	220mm Wide sill set sloping and slightly protecting outside	m	5
7/3/9	Fair cutting fitting around pipe not exceeding 100mm	No	3
7/3/10	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	2
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
7/3/11	75mm Wide reinforcement built in horizontally	m	1
7/3/12	150mm Wide reinforcement built in horizontally	m	94
<b><u>Galvanised wire ties etc</u></b>			
7/3/13	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	20
<b>Carried Forward</b>			R
Section No. 7 Section 7 - Grade R B1 Bill No. 3 Masonry <b>Re-Solve Consulting</b>			

Brought Forward		R
<b><u>Turning pieces to lintels etc.</u></b>		
115mm Wide turning pieces	m	1
230mm Wide turning pieces	m	4
<b><u>Prestressed fabricated lintels</u></b>		
110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m	m	7
<b><u>Air bricks etc.</u></b>		
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 B1		
Bill No. 3		
Masonry		
Re-Solve Consulting		



Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO.4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>			
7/4/1	In walls	m2	49	
	<b><u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>			
7/4/2	Under surface beds	m2	64	
7/4/3	Under aprons and ramps	m2	2	
	<b><u>FLOOR AND WALL SEALERS</u></b>			
	<b><u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u></b>			
7/4/4	Around steel windows and door frames	m	6	
	<b>Carried Forward to Summary of Section No. 7</b>		R	
	Section No. 7			
	Section 7 - Grade R B1			
	Bill No. 4			
	Waterproofing			
	<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
<b><u>SECTION 7</u></b>				
<b><u>BILL NO.5</u></b>				
<b><u>ROOF COVERINGS ETC</u></b>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
<b><u>06mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>				
7/5/1	Roof covering with pitch not exceeding 25 degrees	m2	19	
<b><u>ROOF AND WALL INSULATION</u></b>				
7/5/2	12" Thermal resistance sisalition laid on purlins	m2	19	
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>Aluminium Zinc Seamless Gutters</u></b>				
7/5/3	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	5	
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	
<b>Carried Forward to Summary of Section No. 7</b>				
Section No. 7				
Section 7 - Grade R B1				
Bill No. 5				
Roof Coverings				
<b>Re-Solve Consulting</b>				

Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>ROOFS ETC.</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
7/6/1	Design manufacture and deliver on site plate nailed roof truss construction to Ablutions Block size 4 565 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	
7/6/2	Profit (As per rate build build up)	Item		
	<b>Carried Forward</b>		R	
	Section No. 7 Section 7 - Grade R B1 Bill No. 6 Carpentry and Joinery <b>Re-Solve Consulting</b>			

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	
<b><u>Sawn softwood</u></b>			
7/6/4	38 x 114mm Wall plates	m	20
<b><u>Sundries</u></b>			
7/6/5	Two coats creosote on sawn timbers	m2	18
7/6/6	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	20
7/6/7	Hurricane clips	No	20
<b><u>EAVES VERGES ETC</u></b>			
<b><u>Pressed fibre-cement:</u></b>			
7/6/8	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	5
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
7/6/9	44mm framed ledged and braced door 877 x 2064mm high including external weather bar (D1)	No	1
7/6/10	44mm framed ledged and braced door 915 x 2032mm high including external weather bar (disabled)	No	1
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7			
Section 7 - Grade R B1			
Bill No. 6			
Carpentry and Joinery			
<b>Re-Solve Consulting</b>			

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

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

Item No		Quantity	Rate	Amount
<b><u>SECTION 7</u></b>				
<b><u>BILL NO. 8</u></b>				
<b><u>METALWORK</u></b>				
For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades				
<b><u>WELDED SCREENS GATES ETC</u></b>				
<b><u>Gates to external doors</u></b>				
7/8/1	Purpose made square hollow section mild steel single security gate and frame size to fit standard door size 813 x 2032mm high	No	2	
7/8/2	Single gate and frame size to fit none standard door size approximately 915 x 2032mm high (disable)	No	2	
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>12mm Double rebated frames suitable for one brick walls</u></b>				
7/8/3	Frame for door size 914 x 2032mm high	No	1	
<b><u>1.2mm Single rebate steel frame suitable for one brick wall</u></b>				
7/8/4	Frame for door size 813 x 2032mm high	No	1	
<b><u>STEEL WINDOWS DOORS ETC</u></b>				
<b><u>Nty steel or similar approved school windows with standard burlgar bars formed of 20 x 5mm thick flat bars to all sashes</u></b>				
7/8/5	Window type NE1 size 533 x 654mm high	No	3	
7/8/6	Window type NE7 size 1022 x 654mm high	No	2	
<b>Carried Forward to Summary of Section No. 7</b>				R
Section No. 7 Section 7 - Grade R B1 Bill No. 8 Metalwork <b>Re-Solve Consulting</b>				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE(PROVISIONAL)</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal" or similar and approved</u></b>			
7/10/1	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	
	<b><u>SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS</u></b>			
7/10/2	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	1	
7/10/3	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, 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	
	<b>Carried Forward</b>		R	
	Section No. 7 Section 7 - Grade R B1 Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>			

	Brought Forward			R
7/10/4	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	5	
	<b><u>PRECAST CONCRETE WASH HAND TROUGH</u></b>			
7/10/5	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	1	
	<b><u>SOIL DRAINAGE</u></b>			
	<b><u>uPVC pipes</u></b>			
7/10/6	110mm Pipes laid in and including trenches not exceeding 1m deep	m	10	
	<b><u>Extra over uPVC pipes for fittings</u></b>			
7/10/7	110mm Bend	No	3	
7/10/8	110mm Junction	No	3	
	<b><u>uPVC gulleys</u></b>			
7/10/9	110mm Gully not exceeding 750mm deep including excavations pre-cast concrete surround etc.	No	1	
	<b><u>TRAPS ETC</u></b>			
	<b><u>Marley</u></b>			
7/10/10	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	2	
	<b><u>TAPS VALVES ETC</u></b>			
7/10/11	Cobra Watertech 15mm gate valve plugged	No	1	
	<b>Carried Forward</b>			R
	Section No. 7 Section 7 - Grade R B1 Bill No. 10 Plumbing and Drainage (Provisional) <b>Re-Solve Consulting</b>			

Brought Forward			R
7/10/12	Cobra Watertech 15mm Elbow action pillar tap	No	1
<b><u>SANITARY PLUMBING</u></b>			
<b><u>uPVC pipes</u></b>			
7/10/13	50mm Pipes	m	5
<b><u>Extra over uPVC pipes for fittings</u></b>			
7/10/14	50mm Bend	No	1
7/10/15	50mm Access bend	No	1
7/10/16	50mm Junction	No	1
<b><u>WATER SUPPLIES</u></b>			
<b><u>Class 0 copper pipes</u></b>			
7/10/17	15mm Pipes	m	10
7/10/18	22mm Pipes	m	10
<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>			
7/10/19	15mm Fittings	No	1
7/10/20	22mm Pipes	No	5
<b><u>TESTING</u></b>			
7/10/21	Allow for testing all drains sanitary plumbing water supplies and installtion to the satisfaction of the Principle Agent.	Item	
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7			
Section 7 - Grade R B1			
Bill No. 10			
Plumbing and Drainage (Provisional)			
<b>Re-Solve Consulting</b>			

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Brought Forward			R
<b><u>ON METAL</u></b>			
<b><u>Prime and paint undercoat and 2 finishing coats in gloss enamel colour TBC.</u></b>			
7/12/2	On door frames	m2	4
<b><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></b>			
7/12/3	On windows with burglar bars	m2	2
<b><u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u></b>			
7/12/4	On gates (Measured over the full flat area of both sides)	m2	7
<b><u>ON WOOD</u></b>			
<b><u>Under coat and minimum 2 coats gloss enamel colour TBC</u></b>			
7/12/5	On doors (External)	m2	2
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7			
Section 7 - Grade R B1			
Bill No. 12			
Paintwork			
Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.8</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>ELEVATED WATER TANKS</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
8/1/1	Holes	m3	5	
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
8/1/2	Soft rock	m3	3	
8/1/3	Hard rock	m3	1	
	<b><u>Extra over all excavations for carting away</u></b>			
8/1/4	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	4	
	<b><u>Risk of collapse of excavations</u></b>			
8/1/5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	11	
	<b><u>Keeping excavations free of water</u></b>			
8/1/6	Keeping excavations free of all water other than subterranean water	Item		
	<b><u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u></b>			
8/1/7	Backfilling to trenches, holes, etc	m3	1	
	<b>Carried Forward</b>		R	
	Section No. 8 Section 8 - External Works Bill No. 1 Elevated Water Tanks <b>Re-Solve Consulting</b>			



**Brought Forward**

R

**Compaction of surfaces**

8/1/8	Ditto but to bottom of trenches and bases	m2	16
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**SOIL POISONING**

**Soil insecticide**

8/1/9	To bottoms and sides of trenches etc	m2	16
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**One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"**

8/1/10	Under surface beds	m2	16
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**UNREINFORCED CONCRETE, ETC.**

**15MPa/19mm concrete**

8/1/11	Surface blinding under footings and bases	m3	1
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**REINFORCED CONCRETE**

**25MPa/19mm concrete**

8/1/12	Bases	m3	4
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8/1/13	Platform surface beds cast in panels	m3	3
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**TEST CUBES**

8/1/14	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
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**CONCRETE SUNDRIES**

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

8/1/15	Platform surface beds	m2	16
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**Carried Forward**

R

Section No. 8  
Section 8 - External Works  
Bill No. 1  
Elevated Water Tanks  
**Re-Solve Consulting**

	Brought Forward			R
8/1/16	Top of bases	m2	3	
	<b><u>"Jojo" or equal approved SANS PVC water tanks</u></b>			
8/1/17	10 000 Litre plastic water tank fitted onto and secured to tank platforms	No	1	
	<b><u>Galvanized medium normalized mild steel piping</u></b>			
8/1/18	25mm Pipes	m	40	
8/1/19	50mm Pipes	m	68	
	<b><u>Extra over galvanised mild steel water supply pipes for fittings:</u></b>			
8/1/20	25mm Fittings	No	7	
8/1/21	50mm Elbows	No	7	
8/1/22	50mm Union	No	7	
8/1/23	50mm Reducing bush.	No	3	
	<b><u>"Cobra Watertech" or other equal approved</u></b>			
8/1/24	15mm "Cobra Ref. 108LK" brass hose biptap.	No	3	
8/1/25	50mm Fullway gate valve	No	3	
	<b><u>The following in structural steel tank stands</u></b>			
	<b><u>Welded steel columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u></b>			
8/1/26	80 x 80mm x 6mm angle columns	t	0.99	
	<b><u>Steel members and girth, bolted to steel</u></b>			
8/1/27	30 x 30mm x 6mm Flat-bar	t	0.13	
	Carried Forward			R
	Section No. 8			
	Section 8 - External Works			
	Bill No. 1			
	Elevated Water Tanks			
	Re-Solve Consulting			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 8</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>PAVED WALKWAYS</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>Site Clearance</u></b>			
8/2/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc	m2	226	
8/2/2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	226	
	<b><u>Open face excavation in earth over sloping site</u></b>			
8/2/3	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	56	
	<b><u>Extra over all excavations for carting away</u></b>			
8/2/4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	56	
	<b><u>Earth filling supplied by the contractor under parking areas, roadways, etc</u></b>			
8/2/5	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	56	
	<b>Carried Forward</b>		R	
	Section No. 8 Section 8 - External Works Bill No. 2 Paved Walkways <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>Compaction of surfaces</u></b>			
8/2/6	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	226
<b><u>Soil poisoning</u></b>			
8/2/7	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 <sup>2</sup> on cleared ground	m2	226
<b><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></b>			
8/2/8	Paving to toilet areas etc to falls	m2	226
8/2/9	Fig. 12 kerbs to sides of paving	m	363
8/2/10	15Mpa/19mm unreinforced concrete in haunching	m3	11
<b>Carried Forward to Summary of Section No. 8</b>			R
Section No. 8			
Section 8 - External Works			
Bill No. 2			
Paved Walkways			
<b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION 8</u></b>			
	<b><u>BILL NO. 3</u></b>			
	<b><u>FENCING</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>Alterations</u></b>			
	<b><u>Take down and removing</u></b>			
8/3/1	Steel palisade and steel mesh fencing not exceeding 2400mm high	m	939	
	<b><u>Steel palisade fence</u></b>			
	<b><u>Mild steel welded palisade fence including spot prime exposed metal surfaces and two coats high gloss enamel paint</u></b>			
8/3/2	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	939	
	<b>Carried Forward to Summary of Section No. 8</b>		R	
	Section No. 8 Section 8 - External Works Bill No. 3 Fencing <b>Re-Solve Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.8</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>SEPTIC TANKS, ETC.</u></b>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>EXISTING SEPTIC TANKS</u></b>			
	<b><u>Inspection and cleaning of existing septic tanks</u></b>			
8/4/1	Existing septic tank	No	1	
	<b><u>SITE CLEARANCE ETC</u></b>			
	<b><u>Site clearance</u></b>			
8/4/2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	33	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b><u>Excavation in earth exceeding 2m and not exceeding 4m deep</u></b>			
8/4/3	Holes	m3	88	
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
8/4/4	Soft rock	m3	9	
8/4/5	Hard rock	m3	4	
	<b>Carried Forward</b>		R	
	Section No. 8 Section 8 - External Works Bill No. 4 Septic Tanks, etc. <b>Re-Solve Consulting</b>			

Brought Forward			R
<b><u>Extra over all excavations for carting away</u></b>			
8/4/6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	81
<b><u>Risk of collapse of excavations</u></b>			
8/4/7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	76
<b><u>Keeping excavations free of water</u></b>			
8/4/8	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u></b>			
8/4/9	Backfilling to trenches, holes, etc	m3	7
<b><u>Compaction of surfaces</u></b>			
8/4/10	Ditto but to bottom of trenches and bases	m2	22
<b><u>SOIL POISONING</u></b>			
<b><u>Soil insecticide</u></b>			
8/4/11	To bottoms and sides of trenches etc	m2	22
<b><u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>			
8/4/12	Under surface beds	m2	22
<b><u>UNREINFORCED CONCRETE, ETC.</u></b>			
<b><u>15MPa/19mm concrete</u></b>			
8/4/13	Surface blinding under footings and bases	m3	1
<b><u>REINFORCED CONCRETE</u></b>			
Carried Forward			R
Section No. 8 Section 8 - External Works Bill No. 4 Septic Tanks, etc. <b>Re-Solve Consulting</b>			



Brought Forward				R
<b><u>25MPa/19mm concrete</u></b>				
8/4/14	Bases	m3	7	
8/4/15	Slabs over septic tank	m3	4	
8/4/16	Concrete haunch formed below pipes	m3	0.4	
<b><u>TEST CUBES</u></b>				
8/4/17	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	
<b><u>CONCRETE SUNDRIES</u></b>				
<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>				
8/4/18	Surface beds, slabs, etc.	m2	22	
<b><u>Permanent formwork to soffits</u></b>				
8/4/19	Slab over septic tank	m2	22	
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>				
<b><u>Smooth formwork to sides</u></b>				
8/4/20	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	19	
<b><u>Smooth formwork to form</u></b>				
8/4/21	Opening not exceeding 1m girth through 170mm slab	No	2	
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
<b><u>Fabric Reinforcement</u></b>				
8/4/22	Mesh ref. No. 888 fabric reinforcement fixed horizontal in surface beds etc.	m2	22	
Carried Forward				R
Section No. 8 Section 8 - External Works Bill No. 4 Septic Tanks, etc. Re-Solve Consulting				

		Brought Forward			R
		<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
		<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
8/4/23	One brick walls	m2	76		
		<b><u>BRICKWORK SUNDRIES</u></b>			
8/4/24	Leave of form 450 x 150mm high opening through a one brick wall	No	2		
8/4/25	Leave or form opening through one brickwall for pipe 110mm dia	No	3		
		<b><u>Brickwork reinforcement</u></b>			
8/4/26	150mm Wide reinforcement built in horizontally	m	201		
		<b><u>PLASTERING</u></b>			
		<b><u>Watertight cement plaster on brickwork</u></b>			
8/4/27	On walls	m2	76		
		<b><u>Screed</u></b>			
8/4/28	On floors	m2	22		
		<b><u>Two coats approved epoxy coats</u></b>			
8/4/29	On walls and floors	m2	98		
		<b><u>PLUMBING AND DRAINAGE</u></b>			
		<b><u>uPVC pipes</u></b>			
8/4/30	110mm Pipes	m	45		
		<b><u>Extra over uPVC pipes for fittings</u></b>			
8/4/31	110mm Tee	No	2		
		Carried Forward			R
	Section No. 8				
	Section 8 - External Works				
	Bill No. 4				
	Septic Tanks, etc.				
	<b>Re-Solve Consulting</b>				

Brought Forward			R
<b><u>Cover, etc</u></b>			
8/4/32	600 x 600mm Type 2A cast iron single seal manhole cover and frame	No	4
8/4/33	Lifting key for manhole cover	No	1
<b><u>FRENCH DRAINS</u></b>			
<b><u>SITE CLEARANCE ETC</u></b>			
<b><u>Site clearance</u></b>			
8/4/34	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	20
<b><u>EXCAVATION, FILLING, ETC</u></b>			
<b><u>Excavation in earth exceeding 2m and not exceeding 4m deep</u></b>			
8/4/35	Holes	m3	16
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
8/4/36	Soft rock	m3	2
8/4/37	Hard rock	m3	1
<b><u>Extra over all excavations for carting away</u></b>			
8/4/38	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	10
<b><u>Risk of collapse of excavations</u></b>			
8/4/39	Sides of trench and hole excavations not exceeding 1,5m deep	m2	4
Carried Forward			R
Section No. 8 Section 8 - External Works Bill No. 4 Septic Tanks, etc. Re-Solve Consulting			

**Brought Forward**

R

**Keeping excavations free of water**

8/4/40	Keeping excavations free of all water other than subterranean water				Item
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**Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density**

8/4/41	On top of french drain as soil cover	m3	7		
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**FILTER FABRIC**

**"Kaytech Engineered Fabric" or similar approved laid in strict accordance to the manufacturer's instructions**

8/4/42	"Kaymat U14" or equal approved around stone filling in sub-soil drain trenches	m2	20		
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**20mm Graded stone filling or similar approved**

8/4/43	In holes	m3	5		
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**200 - 300mm Diameter clean washed stone filling or similar approved by engineer**

8/4/44	In holes	m3	15		
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**WATERPROOFING**

**One layer of 250 micron "Tarkon USB Green" or equal approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"**

8/4/45	On top of pipes as protection of joints	m2	20		
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**ROOF SHEETING**

**Roof sheeting**

8/4/46	On top of french drain	m2	20		
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**Carried Forward**

R

Section No. 8  
Section 8 - External Works  
Bill No. 4  
Septic Tanks, etc.  
**Re-Solve Consulting**

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