

Item No		Quantity	Rate	Amount
<u>SECTION 1: PRELIMINARY & GENERAL</u>				
<u>FIXED CHARGED ITEMS</u>				
1	Site Establishment		SUM	
2	Insurance, including political riot insurance		SUM	
<u>Establish facilities on site</u>				
<u>1) For the Engineer</u>				
3	a) Furnished office		SUM	
4	b) Cellphone	Item		15 000.00
5	c) Name board	No	1	
6	d) Provision of 1 Desktop, 1Laptop and a 3 in 1 Printer	Item		25 000.00
7	e) Accommodation for Site Engineer	Item		40 000.00
8	Percentage mark-up on item 1b,1d & 1e		%	
<u>2) For the Contractor</u>				
9	a) Offices, workshop, store, water and electricity arrangement etc.		SUM	
10	b) Other fixed-charge obligations		SUM	
11	Compilation of a health and safety plan		SUM	
12	Provision of HEALTH & SAFETY training, medical examination for workers and administrative work to implement and maintained the safety plan.		SUM	
13	Provision of health and safety equipment and protective clothing for the workforce and 12 additional sets for visitors		SUM	
Carried Forward			R	
Section No. 1 Bill No. 1 PRELIMINARY & GENERAL Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward				R
14	Provide a provisional amount for control testing by an independent laboratory for trench compaction and concrete strength control for all the tests required during the construction period			SUM
15	Removal of site establishment			SUM
<u>3) Remuneration of the Project Liaison Committee</u>				
16	a) Project Liaison Committee			SUM
<u>TIME RELATED ITEMS</u>				
17	Contractual requirements			SUM
18	Operation and maintenance facilities on site	Month	10	
<u>1) For the Engineer</u>				
19	a) Office	Month	10	
20	b) Cellphone - (Month/PVSum)	Month	10	
21	c) Survey assistant and equipment	Month	10	
22	d) Provision of 1 Desktop, 1Laptop and a 3in1Printer - (Month/PVSum)	Month	10	
23	Percentage mark-up on item 1b and 1d - 10% - Monthly Mark-up			%
<u>2) For the Contractor</u>				
24	a) Supervision	Month	10	
25	b) Other time related obligations	Month	10	
26	c) Maintenance of the Health & Safety Plan	Month	10	
27	d) Replacing protective clothing during the contract	Month	10	
28	e) Appointment of safety personal for the contract	Month	10	
Carried Forward				R
Section No. 1 Bill No. 1 PRELIMINARY & GENERAL Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

	Brought Forward			
29	f) Provisional cost for safety officer	Month	10	R
Carried to Final Summary				R
Section No. 1 Bill No. 1 PRELIMINARY & GENERAL Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No	SECTION 2 : BLOCK 1 ADMIN	Quantity	Rate	Amount
	<p><u>BILL NO.1 - EARTHWORKS (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Nature of ground</p> <p>The tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" and where conditions of a more difficult character are indicated these are separately measured.</p> <p>Carting away of excavated material</p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto truck directly from the excavation or alternatively, from stock piles situated on the building site</p> <p>Excavation</p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. " Soft rock" and "hard rock" shall be as defined in "Earthworks"</p> <p>Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>EXCAVATIONS</u></p> <p><u>Excavations in earth not exceeding 2m deep</u></p>			
1	Foundations	m3	137.97	
	Carried Forward			R
	<p>Section No. 2 Bill No. 1 EARTHWORKS (PROVISIONAL) Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	75.95
<u>Keeping excavations free of water</u>			
3	Keeping excavations free of water other than subterranean water (Proven Method and Expenditure)		Item
<u>FILLING</u>			
Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 100mm layers to 93% Mod AASHTO density			
4	Backfilling to strip footings, bases etc	m3	62.02
<u>Compaction of surfaces</u>			
5	To loosen excavated surface and re-compact ground surface under strip footings and surface bed etc. by wetting and compacting to 93% Mod AASTHO	m2	375.85
<u>Prescribed density tests on filling</u>			
6	"Modified AASTHO Density" test	No	7.52
<u>SOIL POISONING</u>			
Soil insecticide in accordance with Architects Specifications			
7	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	340.63
8	To bottoms and sides of trenches etc	m2	535.00
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 1			
EARTHWORKS (PROVISIONAL)			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 2 : BLOCK 1 ADMIN	Quantity	Rate	Amount
	<u>BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of test</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings and Column Bases	m3	26.61	
2	Surface beds on waterproofing	m3	26.09	
3	Columns	m3	0.15	
4	Apron	m3	9.08	
5	Roof Beam	m3	6.00	
	Carried Forward			R
	Section No. 2 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>SMOOTH FORMWORK</u>			
<u>Smooth formwork to soffits</u>			
6	Slab and Roof Beam	m2	86.36
<u>TEST CUBES</u>			
7	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	4.00
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top of surface bed smooth with a power float</u>			
8	Surface beds, slabs, etc	m2	261.00
<u>Finishing top of surface bed smooth with a wood float</u>			
9	Apron	m2	160.00
<u>MOVEMENT JOINT</u>			
<u>10mm Expansion joint with closed cell expanded polyethylene foam (or similar approved) with field moulded sealant between surface bed and brick surfaces</u>			
10	Not exceeding 300mm high to edges of surface bed	m	289.65
Carried Forward			R
Section No. 2 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
	<u>10mm Construction joint between vertical concrete surfaces, debonded with Lime Wash or Bitumen, groove and sealant saw cut filled with Polysulphide sealant Durakol 25 or Similar approved with Polyethylene bond breaker backing tape</u>			
11	Surface beds and Apron not exceeding 300mm thick	m	41.80	
	<u>Saw cut joint with Mutlipoxy 1308</u>			
12	Surface bed not exceeding 300mm thick	m	25.98	
<u>REINFORCEMENT</u>				
<u>Mild steel reinforcement for structural concrete work</u>				
13	8mm diameter bars	t	0.65	
<u>High tensile reinforcement for structural concrete work</u>				
14	8mm Diameter bars	t		
15	10mm Diameter bars	t	1.00	
16	12mm Diameter bars	t	0.49	
17	16mm Diameter bars	t	0.08	
<u>Fabric mesh reinforcement</u>				
18	Type Ref 193 fabric reinforcement in concrete slabs etc.	m2	340.63	
19	Type Ref 100 fabric reinforcement on ceilings	m2	240.84	

Carried Forward to Summary of Section No. 2

Section No. 2
 Bill No. 2
 CONCRETE, FORMWORK AND REINFORCEMENT
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

R

Item No		Quantity	Rate	Amount
	<u>SECTION 2 : BLOCK 1 ADMIN</u>			
	<u>BILL NO.3 - MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Face bricks</u>			
	Bricks shall be ordered timorously to obtain uniformity in size and colour			
	<u>FOUNDATION BRICKWORK</u>			
	<u>Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227)</u>			
1	Half brick walls	m2	100.50	
2	One brick walls	m2	238.73	
3	Columns	m3	0.39	
	<u>SUPERSTRUCTURE BRICKWORK</u>			
	<u>Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227)</u>			
4	Half Brick Walls	m2	200.37	
5	One Brick Walls	m2	271.31	
6	One and a half Brick walls	m2	10.97	
7	One brick gable Walls	m2	34.60	
8	Half brick wall in beamfilling	m2	21.99	
	Carried Forward			
	Section No. 2 Bill No. 3 MASONRY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			R

Brought Forward			R
9	Columns	m3	0.72
<u>BRICKWORK SUNDRIES</u>			
<u>2.5mm Brickwork Reinforcement</u>			
10	75mm Wide built in horizontally	m	1 541.90
11	150mm Wide built in horizontally	m	2 202.87
<u>FACE BRICKWORK</u>			
<u>Moroccan red blend travertine or similar approved face bricks pointed with flush horizontal and vertical joints</u>			
12	Extra over brickwork for face brickwork in foundations (provisional)	m2	21.60
13	Extra over brickwork for face brickwork	m2	162.43
14	Extra over brickwork for brick-on-edge header course lintels 1 course(s) high, pointed on face	m	13.00
<u>Brick-on-edge header coarse copings, sills etc of Moroccan red blend travertine or similar approved face bricks, pointed with recessed joints on all exposed faces</u>			
15	220mm Wide sills set sloping and slightly projected	m	24.00
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 3			
MASONRY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 2 : BLOCK 1 ADMIN	Quantity	Rate	Amount
	<u>BILL NO.4 - WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375 micron embossed damp proof course (SABS 9520 Type B)</u>			
1	In walls	m2	78.71	
	<u>One layer of 250 micron damp proof course (SABS Specification 9520 Type C) waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape</u>			
2	Under Surface bed	m2	289.85	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 4 WATERPROOFING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 2 : BLOCK 1 ADMIN</u>			
<u>BILL NO.5 - ROOF COVERING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>IBR ROOF COVERING</u>			
<u>Guarantees</u>			
<u>The contractor will be required to provide a written guarantee for the roof covering as follows:</u>			
IBR roof covering material - 10 years Workmanship - 10 years			
<u>Certificate for Galvanised Roof Sheeting</u>			
The contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied, complies with the required thickness specified			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
<u>IBR PROFILE SHEETING</u>			
<u>IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting @ 17°, fixed to timber purlins</u>			
1	Roof covering with 17 degree pitch and accessories, including ridge capping, gable and gable trims, flashings etc. Concealed fixed to 76x50mm SA pine Timber purlins @ 1200mm c/c (elsewhere measured)	m2	337.25
Carried Forward			R
Section No. 2 Bill No. 5 ROOF COVERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward

R

ROOF AND WALL INSULATION

Sisalation 405 Reflective foil underlay in accordance with SANS 1381-4 overlapped longitudinally by 100mm; on and including galvanised straining wire spaced at 383mm centres fixed parallel over purlins to manufacturer's instruction

2	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrently with roof covering with minimum 150mm stapled laps including galvanised straining wires at not exceeding 400mm centres and one-sided tape at edges where required (Layer 1) (LI)	m2	320.39
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Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 5
ROOF COVERING
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	Quantity	Rate	Amount
<u>SECTION 2 : BLOCK 1 ADMIN</u>			
<u>BILL NO.6 - CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres and where described as "bolted", the bolts have been given elsewhere			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, rails, etc			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
Carried Forward			R
Section No. 2 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward

R

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION ETC**

SUPPLEMENTARY PREAMBLES

Trusses are at maximum 1 200mm centres

Roof coverings are IBR-profile 0.58mm thick Z275
spelter galvanised steel roof sheeting on purlins

References given in descriptions refer to the respective
types of trusses detailed on the architect's/engineer's
drawings numbered ? annexed to these bills of
quantities (accompanying these bills of quantities?) for
tender purposes

Dimensions in descriptions of trusses are nominal and
actual measurements are to be obtained from the
architect/engineer and/or taken on site before design or
fabrication commences

Sawn softwood trusses

1	Roof construction to 17 degree double pitched roof with SA Pine Timber trusses at 1000mm c/c as per roofing specialist design and specification complete with 114 x 38mm SA pine timber wall plates, 76 x 50mm SA pine timber purlins, bracing, platform, laminated beams and support for future solar geysers, etc	m2	337.25
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Sundries

2	30x1.6mm Galvanised steel straps built 600mm deep into brickwork	No	137.35
3	Two Coats creosote on sawn timbers	m2	130.79
4	Engineers Certificate		Item

EAVES, VERGES, ETC

Carried Forward

R

Section No. 2
Bill No. 6
CARPENTRY AND JOINERY
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Brought Forward		R
<u>Medium density plain fibre-cement fascia's and barge boards</u>		
5	Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225x12mm, fixed to 76x50mm SAP timber tilter batten and 38x38mm SAP timber support battens between rafters twice screwed with 12x40mm countersunk brass screws at 900mm c/c to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.	m 56.59
<u>SKIRTINGS</u>		
<u>Fine grained compresses woodpulp / cane purpose made</u>		
6	76 x 19 mm Skirtings, nailed	m 289.65
<u>DOORS</u>		
<u>Masonite backing side hung doors</u>		
7	Hardwood double door 44 x 1613 x 2032mm with masonite backing, hung to steel frame, including Lockblocks and wood screws	No 2.00
8	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including Lockblocks and wood screws	No 4.00
9	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including 400x400mm Aluminium Louvre Grill, Lockblocks and wood screws	No 13.00
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>		
<u>SUPPLEMENTARY PREAMBLES</u>		
Carried Forward		R
Section No. 2 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward		R
<u>General</u>		
All units shall include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc		
Prices are to include for all necessary filler pieces against walls etc		
<u>References</u>		
Carcasses - white melamine.		
Doors and seen ends - petrol blue melamine with impact edging.		
Counter tops - melawood in colour supamatt storm grey, square line.		
Door / Drawer Handles - 196mm ROCO - square bar stainless steel handle."		
<u>Built in cupboards and Shelves</u>		
10	As per specialist for the supply and installation of built in cupboards and shelves as indicated on Argitectoral Drawings	SUM
Carried Forward to Summary of Section No. 2		R
Section No. 2		
Bill No. 6		
CARPENTRY AND JOINERY		
Tshedimoso Elemental Estimate Rev02		
Stage 3 - Elemental Estimate		

Item No	Quantity	Rate	Amount
<p><u>SECTION 2 : BLOCK 1 ADMIN</u></p>			
<p><u>BILL NO.7 - CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p>			
<p><u>Ceilings</u></p>			
<p>Unless otherwise described ceilings shall be deemed to be horizontal</p>			
<p><u>NAILED-UP CEILINGS</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Openings</u></p>			
<p>Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc</p>			
<p>Carried Forward</p>			
<p>Section No. 2 Bill No. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		R	

Brought Forward			R
<u>6mm Everite Nutec ceilings</u>			
1	Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, standard size: 1200x3600mm fixed to 38x50mm SAP timber brandering at 600mm c/c using 32x2,5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations	m2	240.84
2	Extra over ceilings 600x600mm trap door opening with 50x38mm SAP braced frame, filled with top hinged metal panel door. (Colour White)	No	1.00
<u>Hardboard cornices</u>			
3	83mm Masonite coved hardboard cornices nailed to battens at max. 300mm c/c all round.	m	256.76
<u>120mm Flexible fibreglass insulation</u>			
4	120mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc	m2	240.84
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 7			
CEILINGS, PARTITIONS AND ACCESS FLOORING			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 2 : BLOCK 1 ADMIN	Quantity	Rate	Amount
	<u>BILL NO.8 - FLOOR COVERINGS, WALL LININGS, ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc			
	<u>FLOOR COVERING</u>			
	<u>300 x 300 x 2mm semi flexible vinyl tiles</u>			
1	On floors	m2	260.88	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 8 FLOOR COVERINGS, WALL LININGS, ETC Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 2 : BLOCK 1 ADMIN</u>			
	<u>BILL NO.9 - IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>LOCKS</u>			
	<u>Manufactured by approved supplier</u>			
1	1Pr. Duba One lever handles on plate	No	19.00	
2	Euro profile cylinder SASH Lock - Chrome Plated	No	19.00	
3	66mm Privacy cylinder - Nickle Plated	No	19.00	
4	Rebate conversion set	No	2.00	
5	300mm Flush bolt - Satin Chrome	No	2.00	
6	150mm Flush bolt - Satin Chrome	No	2.00	
	<u>SUNDRIES</u>			
	<u>Manufactured by approved supplier</u>			
7	Floor mounted door stop - Satin Chrome	No	19.00	
	Carried Forward			R
	Section No. 2 Bill No. 9 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
8	175mm Floor operated door holder	No	2.00
9	Coat Hook	No	7.00
10	160x160x2mm Push Plate	No	13.00
<u>FURNITURE</u>			
<u>As per Architects Furniture Schedule Rev.00</u>			
<u>RECEPTION</u>			
11	Teachers desk, 2 drawers, small, steel main frame 21mm Saligna top:1200x700x750mm H	No	1.00
12	Economy Upholstered Side Chair - Steel main frame - blue material 450mmH	No	2.00
13	Economy Upholstered Typist Chair - swivel, without arms on 5 star base, blue material	No	1.00
14	3 Tier Shelving Unit - 21mm Saligna: 900x300x1200mmH	No	1.00
<u>PRINT ROOM, STOCK ROOM, PASTORAL ROOM</u>			
15	Teachers desk, 2 drawers, small, steel main frame 21mm Saligna top:1200x700x750mm H	No	1.00
16	Economy Upholstered Typist Chair - swivel, without arms on 5 star base, blue material	No	1.00
17	Economy Upholstered Side Chair - Steel main frame - blue material 450mmH	No	2.00
<u>SICK ROOMS 1 & 2</u>			
18	Hospital Bed with static headrest - Heaf & foot bow, welmesh base:1970x915x500/640/850mmH	No	2.00
19	Mattress: Navy PVC cover: 1880x900x100mm	No	2.00
Carried Forward			R
Section No. 2 Bill No. 9 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
20	Upholstered Side Chair with Arms - Steel main frame, Upholstered seat & back, 450mmH	No	2.00
<u>PRINCIPAL</u>			
21	Desk, 3 Drawers on right hand side - 32mm Edged Natural Oak Melamine: 1600x900x750mmH	No	1.00
22	3 Tier Shelving Unit - 21mm Saligna: 900x300x1200mmH	No	1.00
23	Link, Small, Right - 32mm Edged Natural Oak Melamine: 900x500x32mm	No	1.00
24	Credenza, Sliding Doors - 32mm Edged Natural Oak Melamine: 900x450x750mm	No	1.00
25	Principal's High Back Chair with Arms - Swivel and tilt, with arms on 5 star base, Upholstered seat & back, Gas height adjustable	No	1.00
26	Upholstered Side Chair with Arms - Steel main frame, Upholstered seat & back, 450mmH	No	2.00
27	Filing Cabinet, 4 Drawers - Edged Natural Oak Melamine: 487x550x1350mmH	No	1.00
28	Glazed Door Bookcase - Saligna/Okoume veneer: 900x360x1500mmH	No	1.00
29	Correspondence Rack, 3 Division - Edged Natural Oak Melamine: 770x353x76mmH	No	1.00
30	Stationery Cupboard, 2 Doors - Edged Natural Oak Melamine: 900x360x1500mmH	No	1.00
<u>DEPUTY PRINCIPAL X 2</u>			
31	Desk, 3 Drawers on right hand side - 32mm Edged Natural Oak Melamine: 1600x900x750mmH	No	1.00
32	Link, Small, Right - 32mm Edged Natural Oak Melamine: 900x500x32mm	No	1.00
Carried Forward			R
Section No. 2 Bill No. 9 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
33	Credenza, Sliding Doors - 32mm Edged Natural Oak Melamine: 900x450x750mm	No	1.00
34	Deputy Principal's High Back Chair with Arms - Swivel and tilt, with arms on 5 star base, Upholstered seat & back, Gas height adjustable	No	1.00
35	Upholstered Side Chair with Arms - Steel main frame, Upholstered seat & back, 450mmH	No	2.00
36	Stationery Cupboard, 2 Doors - Edged Natural Oak Melamine: 900x360x1500mmH	No	1.00
<u>STAFF ROOM</u>			
37	Rectangular Table: Steel frame, Saligna top: 1800x900x700mmH	No	4.00
38	Economy Upholstered Side Chair - Steel main frame - blue material 450mmH	No	14.00
39	Bulletin Boards: 2400x1200mm: Carpet Pinning Board	No	4.00
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 9			
IRONMONGERY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 2 : BLOCK 1 ADMIN	Quantity	Rate	Amount
	<u>BILL NO.10 - PLUMBING AND DRAINAGE</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>BATHROOM FITTINGS</u>			
	<u>Manufactured by Cobra or similar approved</u>			
1	LECICO NEON Front Flush Closed Couple Toilet Suite without toilet seat (or equal approved) Codes: Cistern: NEOCISFFL0NOMUE Pan: NEOPANFLO0000UE	No	4.00	
2	BUXTON STA-TITE Technoplastic thermoplastic universal toilet seat with chrome-plated hinges with patented fixing system that always stays tight. 100% recyclable. Code: 2850CPT	No	5.00	
3	COBRA screw-down angle regulating valve for flexible tubes chrome plated. Includes 1/2"(15mm) male inlet and 1/2"(15mm) female outlet, and sliding wall flange. (or equal approved) Code: 232-10	No	5.00	
4	COBRA 350mm long; 1/2"(15mm) x 1/2" (15mm) Female to Female Flexible Connector. (or equal approved) Code: C-15/350	No	5.00	
	Carried Forward			R
	Section No. 2 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
5	COBRA "WELCOME" medium wall hung basin. (430 x 390mm) 1 x punched tap hole in centre of basin. Includes wall fixing set. (or equal approved) Code: CWLBAWH2-6DT01	No	5.00
6	COBRA slotted basin waste with plug, chrome plated. Includes: 62mm diameter flange, 77mm long shank and 32mm BSP male outlet connection with polymer backnut. (or equal approved) Code: 303	No	5.00
7	COBRA basin type bottle trap with 75mm deep seal and telescopic waste connection pipe. 1¼ female inletconnection; 1½ male outlet connection. Brass body, chrome plated. (or equal approved) Code: 350/N	No	5.00
8	GROHE EUROECO Cosmopolitan T Self Closing Pillar Tap. Grohe ECOJOY 5.7lt/min flow limiter with 3 adjustable flow times, short, medium and long. Approx 7; 15; 30 second (Pressure dependant) minimum recommended operation pressure 100kPa . (or equal approved) Code: G-36265000	No	4.00
9	COBRA "PAUSE" Urinal, ultra eco design with a water saving 0.9lt flush. Compact concealed trapway. Suitable for back entry flushing mechanisms. (or equal approved) Code: CSPURWH1-6DT01	No	2.00
10	COBRA Self closing metering under tile tap, non-hold open with flow controller with a flow cycle of 1 - 20 seconds, 15mm BSP male inlet, and stainless steel flange. Vandal resistant and water saving product. (or equal approved) Code: KM2-301/N	No	2.00
11	FRANKE RODAN towel roll holder (or equal approved) Code: RODX672	No	4.00
12	FRANKE RODAN soap dispenser (or equal approved) Code: RODX619	No	3.00
13	FRANKE STRATOS paper towel dispenser (or equal approved) Code: STRX637	No	2.00
14	FRANKE RODAN waste bin (or equal approved) Code: RODX605	No	2.00
Carried Forward			R
Section No. 2 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			
15	LECICO ATLAS raised paraplegic closed couple water closet with side lever; wall mounted dogleg grab rail and cistern grab rail combo. W=443mm H=855mm D=731mm White vitreous china. (or equal approved) Code: PARSETCCB0RAIBE	No	1.00
16	COBRA Elbow actionpillar tap. With 1/4 turn ceramic disc headpart, flanged backnut and blue indice for cold water application. 1/2"(15mm)BSP male iron connection end. (or equal approved) Code: FEAPILEA-5JT01	No	1.00
17	NEOPERL PCW-02 washer regulator @ 2lt/min; flexible turbine for secure positioning and pressure compensating. Fits 1/2" bib and pilar taps, (or equal approved)	No	1.00
18	FRANKE RODAN electronic hand dryer (or equal approved) Code: RODX310	No	1.00
19	FRANKE EXOS toilet roll holder (or equal approved) Code: EXOS675X	No	1.00
20	ICONOMY simple shelf (or equal approved) Code: RODX619	No	1.00

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Carried Forward to Summary of Section No. 2

Section No. 2
Bill No. 10
PLUMBING AND DRAINAGE
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

R

Item No	Quantity	Rate	Amount
<p><u>SECTION 2 : BLOCK 1 ADMIN</u></p>			
<p><u>BILL NO.11 - METALWORKS</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.</p>			
<p><u>Joinery</u></p>			
<p>Descriptions of frames shall be deemed to include frames, transoms, rails, etc</p>			
<p>Description of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
<p><u>DOORS</u></p>			
<p><u>Fire Doors</u></p>			
<p>Fire doors are to be in accordance with SANS 1253</p>			
<p><u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u></p>			
<p><u>General</u></p>			
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Description of such units shall, therefore, be deemed to include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or vanish finishes, etc</p>			
<p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p>			
<p>Carried Forward</p>			
<p>Section No. 2 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		R	

Brought Forward			R
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 220mm wall</u>			
1	Frame for door 1613 x 2032mm high	No	2.00
<u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 110mm wall</u>			
2	Frame for door 813 x 2032mm high door	No	17.00
<u>ALUMINIUM WINDOWS AND DOORS</u>			
<u>Matt light grey powder coated windows Glazed with GSA SmartGlass - Neutral Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval Burglar Proofing to be provided all to Architects approval.</u>			
3	900x1200mm Window (W01)	No	14.00
4	900x900mm Window (W02)	No	3.00
Carried Forward			R
Section No. 2 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<p><u>Matt light grey powder coated windows Glazed with Obscure glass</u> <u>Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u></p>			
5	900x900mm Window (W03)	No	6.00
6	600x600mm Window (W04)	No	4.00
<u>STEEL ROLLER SHUTTERS ETC</u>			
<p><u>Galvanised steel roller shutters with 76mm slats (18kg/m²), fixed to brickwork or concrete</u></p>			
7	Manual push-up slatted roller shutter for 1200 x 2000mm high opening	No	1.00
<u>STEEL RECORDROOM AND STRONGROOM DOORS, VENTILATORS, ETC</u>			
8	Strongroom doors etc suitable for 230mm walls fixed to brickwork or concrete	No	1.00
<u>STEEL GATES, SCREENS, ETC</u>			
<u>Welded screens and gates</u>			
9	Gate 5	No	1.00
10	Gate 7	No	1.00
11	Gate 8	No	1.00
Carried Forward to Summary of Section No. 2			R
<p>Section No. 2 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Item No		Quantity	Rate	Amount
	<u>SECTION 2 : BLOCK 1 ADMIN</u>			
	<u>BILL NO.12 - PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds wood floated, on concrete</u>			
1	25mm Thick screed on surface bed, incl chipping, cleaning and brushing with Cement/Sand slurry before screeding	m2	260.88	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
2	On walls	m2	727.05	
3	On narrow widths	m2	13.00	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
4	On walls	m2	110.55	
	<u>Cement plaster steel trowelled on concrete</u>			
5	Plaster to roof beam	m2	76.17	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	Bill No. 12			
	PLASTERING			
	Tshedimoso Elemental Estimate Rev02			
	Stage 3 - Elemental Estimate			
			R	

Item No	SECTION 2 : BLOCK 1 ADMIN	Quantity	Rate	Amount
	<u>BILL NO.13 - TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon"?) range of products as recommended by the manufacturer of the tiles			
	<u>WALL TILING</u>			
	<u>152x152x6.5mm/5mm Thick Ceramic tiles fixed with adhesive to plaster and flush pointed with tinted grout on floors</u>			
1	On walls	m	4.61	
	<u>SUNDRIES</u>			
	<u>Anodised aluminium corner protectors, stair nosing, expansion joint strips, etc</u>			
2	10mm Straight edge corner protectors	m	7.30	
3	15mm Straight edge weather strip	m	4.00	
4	T-Piece/Expansion	m	10.00	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 13 TILING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 2 : BLOCK 1 ADMIN	Quantity	Rate	Amount
	<u>BILL NO.14 - GLAZING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Float glass</u>			
	The term "float glass" is used for monolithic glass			
	<u>MIRRORS</u>			
	<u>Silvered floated glass copper backed mirrors with polished edges, fixed to wall with double sided adhesive tape and silicone</u>			
1	Mirror 450 x 600mm high	No	7	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 14 GLAZING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 2 : BLOCK 1 ADMIN	Quantity	Rate	Amount
	<u>BILL NO.15 - PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with Architect specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
1	Walls	m2	739.48	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
2	Walls and beams	m2	201.03	
	<u>ON SMOOTH CONCRETE SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
3	Slab	m2	10.19	
	<u>ON FIBRE-CEMENT SURFACES</u>			
	Carried Forward			
	Section No. 2 Bill No. 15 PAINTWORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		R	

Brought Forward			R
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>		
4	Fascia and barge boards not exceeding 300mm girth, including priming metal jointing strips	m2 44.88	
5	Ceilings and cornices	m2 240.84	
	<u>ON METAL SURFACES</u>		
	<u>One coat metal primer and two coats Plascon Velvetro, on steel</u>		
6	Door frames	m2 18.84	
7	Gates	m2 26.00	
	<u>ON WOOD SURFACES</u>		
	<u>One coat primer and two coats premium quality polyurethane enamel paint</u>		
8	External door	m2 13.22	
	<u>Three coats superior quality clear matt varnish</u>		
9	Internal Door	m2 56.17	
	Carried Forward to Summary of Section No. 2		R
	Section No. 2		
	Bill No. 15		
	PAINTWORK		
	Tshedimoso Elemental Estimate Rev02		
	Stage 3 - Elemental Estimate		

SECTION SUMMARY - SECTION 2: BLOCK 1 ADMIN

Bill No		Page No	Amount
1	EARTHWORKS (PROVISIONAL)	5	
2	CONCRETE, FORMWORK AND REINFORCEMENT	8	
3	MASONRY	10	
4	WATERPROOFING	11	
5	ROOF COVERING	13	
6	CARPENTRY AND JOINERY	17	
7	CEILINGS, PARTITIONS AND ACCESS FLOORING	19	
8	FLOOR COVERINGS, WALL LININGS, ETC	20	
9	IRONMONGERY	24	
10	PLUMBING AND DRAINAGE	27	
11	METALWORKS	30	
12	PLASTERING	31	
13	TILING	32	
14	GLAZING	33	
15	PAINTWORK	35	
Carried to Final Summary			R
Section No. 2 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u>			
<u>BILL NO.1 - EARTHWORKS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Nature of ground			
The tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" 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 truck directly from the excavation or alternatively, from stock piles situated on the building site			
Excavation			
No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. " Soft rock" and "hard rock" shall be as defined in "Earthworks"			
Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill			
<u>EXCAVATIONS</u>			
<u>Excavations in earth not exceeding 2m deep</u>			
1	Foundations	m3	131.22
<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	69.81
Carried Forward			R
Section No. 3 Bill No. 1 EARTHWORKS (PROVISIONAL) Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Keeping excavations free of water</u>		
3	Keeping excavations free of water other than subterranean water (Proven Method and Expenditure)	Item	
	<u>FILLING</u>		
	Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 100mm layers to 93% Mod AASHTO density		
4	Backfilling to strip footings, bases etc	m3	61.42
	<u>Compaction of surfaces</u>		
5	To loosen excavated surface and re-compact ground surface under strip footings and surface bed etc. by wetting and compacting to 93% Mod AASTHO	m2	383.54
	<u>Prescribed density tests on filling</u>		
6	"Modified AASTHO Density" test	No	7.66
	<u>SOIL POISONING</u>		
	Soil insecticide in accordance with Architects Specifications		
7	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	335.20
8	To bottoms and sides of trenches etc	m2	479.72
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 1			
EARTHWORKS (PROVISIONAL)			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

			Brought Forward		R
5	Roof Beam	m3	6.00		
<u>SMOOTH FORMWORK</u>					
<u>Smooth formwork to soffits</u>					
6	Roof Beam	m2	82.35		
<u>TEST CUBES</u>					
7	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	4.00		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top of surface bed smooth with a power float</u>					
8	Surface beds, slabs, etc	m2	275.00		
<u>Finishing top of surface bed smooth with a wood float</u>					
9	Apron	m2	123.00		
<u>MOVEMENT JOINT</u>					
<u>10mm Expansion joint with closed cell expanded polyethylene foam (or similar approved) with field moulded sealant between surface bed and brick surfaces</u>					
10	Not exceeding 300mm high to edges of surface bed	m	233.82		
			Carried Forward		R
Section No. 3 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate					

Brought Forward			R
	<u>10mm Construction joint between vertical concrete surfaces, debonded with Lime Wash or Bitumen, groove and sealant saw cut filled with Polysulphide sealant Durakol 25 or Similar approved with Polyethylene bond breaker backing tape</u>		
11	Surface beds and Apron not exceeding 300mm thick	m	59.10
	<u>Saw cut joint with Mutlipoxy 1308</u>		
12	Surface bed not exceeding 300mm thick	m	45.02
<u>REINFORCEMENT</u>			
	<u>Mild steel reinforcement for structural concrete work</u>		
13	8mm diameter bars	t	0.63
	<u>High tensile reinforcement for structural concrete work</u>		
14	8mm Diameter bars	t	
15	10mm Diameter bars	t	0.85
16	12mm Diameter bars	t	0.47
17	16mm Diameter bars	t	0.04
	<u>Fabric mesh reinforcement</u>		
18	Type Ref 193 fabric reinforcement in concrete slabs etc.	m2	335.20
19	Type Ref 100 fabric reinforcement on ceilings	m2	200.76

Carried Forward to Summary of Section No. 3

Section No. 3
 Bill No. 2
 CONCRETE, FORMWORK AND REINFORCEMENT
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

R

Brought Forward			R
8	Columns	m3	2.24
<u>BRICKWORK SUNDRIES</u>			
<u>2.5mm Brickwork Reinforcement</u>			
9	75mm Wide built in horizontally	m	371.41
10	150mm Wide built in horizontally	m	2 473.73
<u>FACE BRICKWORK</u>			
<u>Moroccan red blend travertine or similar approved face bricks pointed with flush horizontal and vertical joints</u>			
11	Extra over brickwork for face brickwork in foundations (provisional)	m2	34.36
12	Extra over brickwork for face brickwork	m2	250.28
13	Extra over brickwork for brick-on-edge header course lintels 1 course(s) high, pointed on face	m	55.00
<u>Brick-on-edge header coarse copings, sills etc of Moroccan red blend travertine or similar approved face bricks, pointed with recessed joints on all exposed faces</u>			
14	220mm Wide sills set sloping and slightly projected	m	24.00
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 3			
MASONRY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
<u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u>				
<u>BILL NO.4 - WATERPROOFING</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer 375 micron embossed damp proof course (SABS 9520 Type B)</u>				
1	In walls	m2	82.76	
<u>One layer of 250 micron damp proof course (SABS Specification 9520 Type C) waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape</u>				
2	Under Surface bed	m2	297.58	
Carried Forward to Summary of Section No. 3				R
Section No. 3 Bill No. 4 WATERPROOFING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No	Quantity	Rate	Amount
<u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u>			
<u>BILL NO.5 - ROOF COVERING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>IBR ROOF COVERING</u>			
<u>Guarantees</u>			
<u>The contractor will be required to provide a written guarantee for the roof covering as follows:</u>			
IBR roof covering material - 10 years Workmanship - 10 years			
<u>Certificate for Galvanised Roof Sheeting</u>			
The contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied, complies with the required thickness specified			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
<u>IBR PROFILE SHEETING</u>			
<u>IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting @ 17°, fixed to timber purlins</u>			
1	Roof covering with 17 degree pitch and accessories, including ridge capping, gable and gable trims, flashings etc. Concealed fixed to 76x50mm SA pine Timber purlins @ 1200mm c/c (elsewhere measured)	m2	337.97
Carried Forward			R
Section No. 3 Bill No. 5 ROOF COVERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward

R

ROOF AND WALL INSULATION

Sisalation 405 Reflective foil underlay in accordance with SANS 1381-4 overlapped longitudinally by 100mm; on and including galvanised straining wire spaced at 383mm centres fixed parallel over purlins to manufacturer's instruction

2	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrently with roof covering with minimum 150mm stapled laps including galvanised straining wires at not exceeding 400mm centres and one-sided tape at edges where required (Layer 1) (LI)	m2	321.07
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Carried Forward to Summary of Section No. 3

R

Section No. 3
Bill No. 5
ROOF COVERING
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	Quantity	Rate	Amount
<p><u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u></p>			
<p><u>BILL NO.6 - CARPENTRY AND JOINERY</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres and where described as "bolted", the bolts have been given elsewhere</p>			
<p><u>Joinery</u></p>			
<p>Descriptions of frames shall be deemed to include frames, transoms, rails, etc</p>			
<p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
<p>Carried Forward</p>			<p>R</p>
<p>Section No. 3 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Brought Forward		R
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>		
<u>SUPPLEMENTARY PREAMBLES</u>		
Trusses are at maximum 1 200mm centres		
Roof coverings are IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting on purlins		
References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings numbered ? annexed to these bills of quantities (accompanying these bills of quantities?) for tender purposes		
Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences		
<u>Sawn softwood trusses</u>		
1	Roof construction to 17 degree double pitched roof with SA Pine Timber trusses at 1000mm c/c as per roofing specialist design and specification complete with 114 x 38mm SA pine timber wall plates, 76 x 50mm SA pine timber purlins, bracing, platform, laminated beams and support for future solar geysers, etc	m2 337.97
<u>Sundries</u>		
2	30x1.6mm Galvanised steel straps built 600mm deep into brickwork	No 99.03
3	Two Coats creosote on sawn timbers	m2 97.64
4	Engineers Certificate	Item
<u>EAVES, VERGES, ETC</u>		
Carried Forward		R
Section No. 3 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward		R
<u>Medium density plain fibre-cement fascia's and barge boards</u>		
5	Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225x12mm, fixed to 76x50mm SAP timber tilter batten and 38x38mm SAP timber support battens between rafters twice screwed with 12x40mm countersunk brass screws at 900mm c/c to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.	m 60.68
<u>SKIRTINGS</u>		
<u>Fine grained compresses woodpulp / cane purpose made</u>		
6	76 x 19 mm Skirtings, nailed	m 233.82
<u>DOORS</u>		
<u>Masonite backing side hung doors</u>		
7	Hardwood door 44 x 813 x 2032mm with masonite backing, hung to steel frame, including Lockblocks and wood screws	No 3.00
8	Hardwood door 44 x 1613 x 2032mm with masonite backing, hung to steel frame, including Lockblocks and wood screws	No 2.00
9	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including Lockblocks and wood skrewes	No 2.00
10	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including 400x400mm Aluminium Louvre Grill, Lockblocks and wood screws	No 5.00
<u>Built-in cupboards and shelves</u>		
11	As per specialist for the supply and installation of built in indicated on Argitectural Drawings	
		SUM
Carried Forward to Summary of Section No. 3		R
Section No. 3 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Item No	Quantity	Rate	Amount
<p><u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u></p>			
<p><u>BILL NO.7 - CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p>			
<p><u>Ceilings</u></p>			
<p>Unless otherwise described ceilings shall be deemed to be horizontal</p>			
<p><u>NAILED-UP CEILINGS</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Openings</u></p>			
<p>Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc</p>			
<p>Carried Forward</p>			
<p>Section No. 3 Bill No. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		R	

Brought Forward			R
<u>6mm Everite Nutec ceilings</u>			
1	Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, standard size: 1200x3600mm fixed to 38x50mm SAP timber brandering at 600mm c/c using 32x2,5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations	m2	200.76
2	Extra over ceilings 600x600mm trap door opening with 50x38mm SAP braced frame, filled with top hinged metal panel door. (Colour White)	No	2.00
<u>Hardboard cornices</u>			
3	83mm Masonite coved hardboard cornices nailed to battens at max. 300mm c/c all round.	m	149.83
<u>120mm Flexible fibreglass insulation</u>			
4	120mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc	m2	200.76
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 7			
CEILINGS, PARTITIONS AND ACCESS FLOORING			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u></p> <p><u>BILL NO.8 - FLOOR COVERINGS, WALL LININGS, ETC</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p><u>FLOOR COVERING</u></p> <p><u>300 x 300 x 2mm semi flexible vinyl tiles</u></p>			
1	On floors	m2	274.19	
	<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Bill No. 8 FLOOR COVERINGS, WALL LININGS, ETC Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			R

Item No		Quantity	Rate	Amount
	<u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u>			
	<u>BILL NO.9 - IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>LOCKS</u>			
	<u>Manufactured by approved supplier</u>			
1	1Pr. Duba One lever handles on plate	No	12.00	
2	Euro profile cylinder SASH Lock - Chrome Plated	No	12.00	
3	66mm Privacy cylinder - Nickle Plated	No	12.00	
4	Rebate conversion set	No	2.00	
5	300mm Flush bolt - Satin Chrome	No	2.00	
6	150mm Flush bolt - Satin Chrome	No	2.00	
	<u>SUNDRIES</u>			
	Carried Forward			R
	Section No. 3 Bill No. 9 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>Manufactured by approved supplier</u>			
7	Floor mounted door stop - Satin Chrome	No	12.00
8	175mm Floor operated door holder	No	2.00
9	Coat Hook	No	4.00
10	160x160x2mm Push Plate	No	6.00
<u>FURNITURE</u>			
<u>As per Architects Furniture Schedule Rev.00</u>			
11	Rectangular Table: Saligna top with 32mm square steel legs: 1800x900x700mmH	No	5.00
12	Secondary Chair - Stackable steel frame, large orange polyprop seat:450mmH	No	20.00
13	Bulletin Boards: 2400x1200mm: Carpet Pinning Board	No	1.00
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 9			
IRONMONGERY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u>			
	<u>BILL NO.10 - PLUMBING AND DRAINAGE</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>BATHROOM FITTINGS</u>			
	<u>Manufactured by Cobra or similar approved</u>			
1	LECICO NEON Front Flush Closed Couple Toilet Suite without toilet seat (or equal approved) Codes: Cistern: NEOCISFFL0NOMUE Pan: NEOPANFLO0000UE	No	2.00	
2	BUXTON STA-TITE Technoplastic thermoplastic universal toilet seat with chrome-plated hinges with patented fixing system that always stays tight. 100% recyclable. Code: 2850CPT	No	2.00	
3	COBRA screw-down angle regulating valve for flexible tubes chrome plated. Includes 1/2"(15mm) male inlet and 1/2"(15mm) female outlet, and sliding wall flange. (or equal approved) Code: 232-10	No	2.00	
	Carried Forward			R
	Section No. 3 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward		R
4	COBRA 350mm long; 1/2"(15mm) x 1/2" (15mm) Female to Female Flexible Connector. (or equal approved) Code: C-15/350	No 2.00
5	COBRA "WELCOME" medium wall hung basin. (430 x 390mm) 1 x punched tap hole in centre of basin. Includes wall fixing set. (or equal approved) Code: CWLBAWH2-6DT01	No 4.00
6	COBRA slotted basin waste with plug, chrome plated. Includes: 62mm diameter flange, 77mm long shank and 32mm BSP male outlet connection with polymer backnut. (or equal approved) Code: 303	No 4.00
7	COBRA basin type bottle trap with 75mm deep seal and telescopic waste connection pipe. 1¼ female inletconnection; 1½ male outlet connection. Brass body, chrome plated. (or equal approved) Code: 350/N	No 4.00
8	GROHE EUROECO Cosmopolitan T Self Closing Pillar Tap. Grohe ECOJOY 5.7lt/min flow limiter with 3 adjustable flow times, short, medium and long. Approx 7; 15; 30 second (Pressure dependant) minimum recommended operation pressure 100kPa . (or equal approved) Code: G-36265000	No 4.00
9	FRANKE RODAN towel roll holder (or equal approved) Code: RODX672	No 2.00
10	FRANKE RODAN soap dispenser (or equal approved) Code: RODX619	No 2.00
11	FRANKE STRATOS paper towel dispenser (or equal approved) Code: STRX637	No 2.00
12	FRANKE RODAN waste bin (or equal approved) Code: RODX605	No 2.00
Carried Forward to Summary of Section No. 3		R
Section No. 3 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Item No	Quantity	Rate	Amount
<p><u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u></p>			
<p><u>BILL NO.11 - METALWORKS</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.</p>			
<p><u>Joinery</u></p>			
<p>Descriptions of frames shall be deemed to include frames, transoms, rails, etc</p>			
<p>Description of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
<p><u>DOORS</u></p>			
<p><u>Fire Doors</u></p>			
<p>Fire doors are to be in accordance with SANS 1253</p>			
<p><u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u></p>			
<p>Carried Forward</p>			
<p>Section No. 3 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		R	

Brought Forward		R
<u>General</u>		
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Description of such units shall, therefore, be deemed to include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or vanish finishes, etc</p> <p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p>		
<u>PRESSED STEEL DOOR FRAMES</u>		
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 220mm wall</u></p>		
1	Frame for door 813 x 2032mm high door	No 3.00
2	Frame for door 1613 x 2032mm high door	No 2.00
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 110mm wall</u></p>		
3	Frame for door 813 x 2032mm high door	No 7.00
<u>ALUMINIUM WINDOWS AND DOORS</u>		
Carried Forward		R
<p>Section No. 3 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		

Brought Forward			R
	<p><u>Matt light grey powder coated windows Glazed with GSA SmartGlass - Neutral Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u></p>		
4	900x1200mm Window (W01)	No	7.00
	<p><u>Matt light grey powder coated windows Glazed with Obscure glass Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u></p>		
5	600x900mm Window (W04)	No	2.00
6	900x900mm Window (W06)	No	17.00
<u>STEEL ROLLER SHUTTERS ETC</u>			
	<p><u>Galvanised steel roller shutters with 76mm slats (18kg/m²), fixed to brickwork or concrete</u></p>		
7	Manual push-up slatted roller shutter for 1200 x 2000mm high opening	No	1.00
<u>STEEL GATES, SCREENS, ETC</u>			
	<p><u>Welded screens and gates</u></p>		
8	Gate 5	No	3.00
Carried Forward			R
<p>Section No. 3 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

		Brought Forward			R
9	Gate 10	No	1.00		
10	Gate 12	No	2.00		
Carried Forward to Summary of Section No. 3					R
Section No. 3					
Bill No. 11					
METALWORKS					
Tshedimoso Elemental Estimate Rev02					
Stage 3 - Elemental Estimate					

Item No		Quantity	Rate	Amount
	<u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u>			
	<u>BILL NO.12 - PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds wood floated, on concrete</u>			
1	25mm Thick screed on surface bed, incl chipping, cleaning and brushing with Cement/Sand slurry before screeding	m2	274.19	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
2	On walls	m2	391.86	
3	On narrow widths	m2	15.00	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
4	On walls	m2	158.65	
	<u>Cement plaster steel trowelled on concrete</u>			
5	Plaster to roof beam	m2	82.35	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 Bill No. 12 PLASTERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u>			
	<u>BILL NO.13 - TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon"?) range of products as recommended by the manufacturer of the tiles			
	<u>WALL TILING</u>			
	<u>152x152x6.5mm/5mm Thick Ceramic tiles fixed with adhesive to plaster and flush pointed with tinted grout on floors</u>			
1	On walls	m	11.65	
	<u>SUNDRIES</u>			
	<u>Anodised aluminium corner protectors, stair nosing, expansion joint strips, etc</u>			
2	10mm Straight edge corner protectors	m	8.21	
3	15mm Straight edge weather strip	m	6.00	
	Carried Forward			R
	Section No. 3 Bill No. 13 TILING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward			
4	T-Piece/Expansion	m	10.00	R	
					R
Carried Forward to Summary of Section No. 3					
Section No. 3					
Bill No. 13					
TILING					
Tshedimoso Elemental Estimate Rev02					
Stage 3 - Elemental Estimate					

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u></p> <p><u>BILL NO.14 - GLAZING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Float glass</u></p> <p>The term "float glass" is used for monolithic glass</p> <p><u>MIRRORS</u></p> <p><u>Silvered floated glass copper backed mirrors with polished edges, fixed to wall with double sided adhesive tape and silicone</u></p>			
1	Mirror 450 x 600mm high	No	4	
	<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Bill No. 14 GLAZING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			R

Item No		Quantity	Rate	Amount
	<u>SECTION 3 : BLOCK 2 DINING AND NUTRITION STRUCTURE</u>			
	<u>BILL NO.12 - PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with Architect specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
1	Walls	m2	406.10	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
2	Walls and beams	m2	241.00	
	<u>ON FIBRE-CEMENT SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
3	Fascia and barge boards not exceeding 300mm girth, including priming metal jointing strips	m2	47.94	
	Carried Forward			R
	Section No. 3 Bill No. 15 PAINTWORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
4	Ceilings and cornices	m2	200.76
<u>ON METAL SURFACES</u>			
<u>One coat metal primer and two coats Plascon Velvegro, on steel</u>			
5	Door frames	m2	11.31
6	Gates	m2	21.00
<u>ON WOOD SURFACES</u>			
<u>One coat primer and two coats premium quality polyurethane enamel paint</u>			
7	External door	m2	23.13
<u>Three coats superior quality clear matt varnish</u>			
8	Internal Door	m2	23.13
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 15			
PAINTWORK			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

SECTION SUMMARY - SECTION 3 : BLOCK 2 DINING AND NUTRITION CEN

Bill No		Page No	Amount
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Carried to Final Summary			
Section No. 3 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			R

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.1 - EARTHWORKS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Nature of ground			
	The tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" 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 truck directly from the excavation or alternatively, from stock piles situated on the building site			
	Excavation			
	No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. " Soft rock" and "hard rock" shall be as defined in "Earthworks"			
	Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill			
	<u>EXCAVATIONS</u>			
	<u>Excavations in earth not exceeding 2m deep</u>			
1	Foundations	m3	82.28	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	48.72	
	Carried Forward			R
	Section No. 4 Bill No. 1 EARTHWORKS (PROVISIONAL) Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Keeping excavations free of water</u>		
3	Keeping excavations free of water other than subterranean water (Proven Method and Expenditure)	Item	
	<u>FILLING</u>		
	Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 100mm layers to 93% Mod AASHTO density		
4	Backfilling to strip footings, bases etc	m3	33.66
	<u>Compaction of surfaces</u>		
5	To loosen excavated surface and re-compact ground surface under strip footings and surface bed etc. by wetting and compacting to 93% Mod AASTHO	m2	242.57
	<u>Prescribed density tests on filling</u>		
6	"Modified AASTHO Density" test	No	4.83
	<u>SOIL POISONING</u>		
	Soil insecticide in accordance with Architects Specifications		
7	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	230.07
8	To bottoms and sides of trenches etc	m2	305.95
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 1			
EARTHWORKS (PROVISIONAL)			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
<u>BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of test</u>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>			
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25Mpa/19mm Concrete</u>			
1	Strip footings and Column Bases	m3	16.60
2	Surface beds on waterproofing	m3	17.40
3	Columns	m3	0.71
4	Apron	m3	6.41
Carried Forward			R
<p>Section No. 4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

			Brought Forward		R
5	Roof Beam	m3	5.00		
<u>SMOOTH FORMWORK</u>					
<u>Smooth formwork to soffits</u>					
6	Roof Beam	m2	65.05		
<u>TEST CUBES</u>					
7	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	4.00		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top of surface bed smooth with a power float</u>					
8	Surface beds, slabs, etc	m2	174.00		
<u>Finishing top of surface bed smooth with a wood float</u>					
9	Apron	m2	113.00		
<u>MOVEMENT JOINT</u>					
<u>10mm Expansion joint with closed cell expanded polyethylene foam (or similar approved) with field moulded sealant between surface bed and brick surfaces</u>					
10	Not exceeding 300mm high to edges of surface bed	m	140.17		
			Carried Forward		R
Section No. 4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate					

Brought Forward			R
	<u>10mm Construction joint between vertical concrete surfaces, debonded with Lime Wash or Bitumen, groove and sealant saw cut filled with Polysulphide sealant Durakol 25 or Similar approved with Polyethylene bond breaker backing tape</u>		
11	Surface beds and Apron not exceeding 300mm thick	m	33.32
	<u>Saw cut joint with Mutlipoxy 1308</u>		
12	Surface bed not exceeding 300mm thick	m	38.99
<u>REINFORCEMENT</u>			
	<u>Mild steel reinforcement for structural concrete work</u>		
13	8mm diameter bars	t	0.45
	<u>High tensile reinforcement for structural concrete work</u>		
14	8mm Diameter bars	t	
15	10mm Diameter bars	t	0.52
16	12mm Diameter bars	t	0.41
17	16mm Diameter bars	t	0.09
	<u>Fabric mesh reinforcement</u>		
18	Type Ref 193 fabric reinforcement in concrete slabs etc.	m2	230.07
19	Type Ref 100 fabric reinforcement on ceilings	m2	141.27
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Brought Forward			R
8	Half brick wall in beamfilling	m2	20.01
9	Columns	m3	1.74
<u>BRICKWORK SUNDRIES</u>			
<u>2.5mm Brickwork Reinforcement</u>			
10	75mm Wide built in horizontally	m	218.32
11	150mm Wide built in horizontally	m	1 504.34
<u>FACE BRICKWORK</u>			
<u>Moroccan red blend travertine or similar approved face bricks pointed with flush horizontal and vertical joints</u>			
12	Extra over brickwork for face brickwork in foundations (provisional)	m2	15.61
13	Extra over brickwork for face brickwork	m2	114.03
14	Extra over brickwork for brick-on-edge header course lintels 1 course(s) high, pointed on face	m	21.00
<u>Brick-on-edge header coarse copings, sills etc of Moroccan red blend travertine or similar approved face bricks, pointed with recessed joints on all exposed faces</u>			
15	220mm Wide sills set sloping and slightly projected	m	20.00
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 3			
MASONRY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 4 : BLOCK 3 MEDIA CENTRE)	Quantity	Rate	Amount
	<u>BILL NO.4 - WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	<u>DAMPPOOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375 micron embossed damp proof course (SABS 9520 Type B)</u>			
1	In walls	m2	58.78	
	<u>One layer of 250 micron damp proof course (SABS Specification 9520 Type C) waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape</u>			
2	Under Surface bed	m2	187.94	
	Carried Forward to Summary of Section No. 4			
	Section No. 4 Bill No. 4 WATERPROOFING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			R

Item No	Quantity	Rate	Amount
<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
<u>BILL NO.5 - ROOF COVERING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>IBR ROOF COVERING</u>			
<u>Guarantees</u>			
<u>The contractor will be required to provide a written guarantee for the roof covering as follows:</u>			
IBR roof covering material - 10 years Workmanship - 10 years			
<u>Certificate for Galvanised Roof Sheeting</u>			
The contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied, complies with the required thickness specified			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
<u>IBR PROFILE SHEETING</u>			
<u>IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting @ 17°, fixed to timber purlins</u>			
1	Roof covering with 17 degree pitch and accessories, including ridge capping, gable and gable trims, flashings etc. Concealed fixed to 76x50mm SA pine Timber purlins @ 1200mm c/c (elsewhere measured)	m2	232.93
Carried Forward			R
Section No. 4 Bill No. 5 ROOF COVERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward

R

ROOF AND WALL INSULATION

Sisalation 405 Reflective foil underlay in accordance with SANS 1381-4 overlapped longitudinally by 100mm; on and including galvanised straining wire spaced at 383mm centres fixed parallel over purlins to manufacturer's instruction

2	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrently with roof covering with minimum 150mm stapled laps including galvanised straining wires at not exceeding 400mm centres and one-sided tape at edges where required (Layer 1) (LI)	m2	221.28
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Carried Forward to Summary of Section No. 4

R

Section No. 4
Bill No. 5
ROOF COVERING
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	Quantity	Rate	Amount
<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
<u>BILL NO.6 - CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres and where described as "bolted", the bolts have been given elsewhere			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, rails, etc			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
Carried Forward			R
Section No. 4 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward		R
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>		
<u>SUPPLEMENTARY PREAMBLES</u>		
Trusses are at maximum 1 200mm centres		
Roof coverings are IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting on purlins		
References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings numbered ? annexed to these bills of quantities (accompanying these bills of quantities?) for tender purposes		
Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences		
<u>Sawn softwood trusses</u>		
1	Roof construction to 17 degree double pitched roof with SA Pine Timber trusses at 1000mm c/c as per roofing specialist design and specification complete with 114 x 38mm SA pine timber wall plates, 76 x 50mm SA pine timber purlins, bracing, platform, laminated beams and support for future solar geysers, etc	m2 232.93
<u>Sundries</u>		
2	30x1.6mm Galvanised steel straps built 600mm deep into brickwork	No 121.65
3	Two Coats creosote on sawn timbers	m2 114.22
4	Engineers Certificate	Item
<u>EAVES, VERGES, ETC</u>		
Carried Forward		R
Section No. 4 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward			R
<u>Medium density plain fibre-cement fascia's and barge boards</u>			
5	Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225x12mm, fixed to 76x50mm SAP timber tilter batten and 38x38mm SAP timber support battens between rafters twice screwed with 12x40mm countersunk brass screws at 900mm c/c to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.	m	40.44
<u>SKIRTINGS</u>			
<u>Fine grained compresses woodpulp / cane purpose made</u>			
6	76 x 19 mm Skirtings, nailed	m	140.17
<u>DOORS</u>			
<u>Masonite backing side hung doors</u>			
7	Hardwood door 44 x 813 x 2032mm with masonite backing, hung to steel frame, including Lockblocks and wood screws	No	1.00
8	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including 400x400mm Aluminium Louvre Grill, Lockblocks and wood screws	No	4.00
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
All units shall include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc			
Carried Forward			R
Section No. 4 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward		R
<p>Prices are to include for all necessary filler pieces against walls etc</p> <p><u>References</u></p> <p>Carcasses - white melamine.</p> <p>Doors and seen ends - petrol blue melamine with impact edging.</p> <p>Counter tops - melawood in colour supamatt storm grey, square line.</p> <p>Door / Drawer Handles - 196mm ROCO - square bar stainless steel handle."</p> <p><u>Built in cupboards and Shelves</u></p>		
9	<p>As per specialist for the supply and installation of built in cupboards and shelves as indicated on Architectural Drawings</p>	SUM
Carried Forward to Summary of Section No. 4		R
<p>Section No. 4 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		

Item No	Quantity	Rate	Amount
<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
<u>BILL NO.7 - CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
<u>Ceilings</u>			
Unless otherwise described ceilings shall be deemed to be horizontal			
<u>NAILED-UP CEILINGS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Openings</u>			
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc			
Carried Forward			R
Section No. 4 Bill No. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>6mm Everite Nutec ceilings</u>			
1	Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, standard size: 1200x3600mm fixed to 38x50mm SAP timber brandering at 600mm c/c using 32x2,5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations	m2	141.27
2	Extra over ceilings 600x600mm trap door opening with 50x38mm SAP braced frame, filled with top hinged metal panel door. (Colour White)	No	1.00
<u>Hardboard cornices</u>			
3	83mm Masonite coved hardboard cornices nailed to battens at max. 300mm c/c all round.	m	98.56
<u>120mm Flexible fibreglass insulation</u>			
4	120mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc	m2	141.27
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 7			
CEILINGS, PARTITIONS AND ACCESS FLOORING			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 4 : BLOCK 3 MEDIA CENTRE)	Quantity	Rate	Amount
	<p><u>BILL NO.8 - FLOOR COVERINGS, WALL LININGS, ETC</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p><u>FLOOR COVERING</u></p> <p><u>300 x 300 x 2mm semi flexible vinyl tiles</u></p>			
1	On floors	m2	173.92	
	<p>Carried Forward to Summary of Section No. 4</p> <p>Section No. 4 Bill No. 8 FLOOR COVERINGS, WALL LININGS, ETC Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			R

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.9 - IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>LOCKS</u>			
	<u>Manufactured by approved supplier</u>			
1	1Pr. Duba One lever handles on plate	No	7.00	
2	Euro profile cylinder SASH Lock - Chrome Plated	No	7.00	
3	66mm Privacy cylinder - Nickle Plated	No	7.00	
	<u>SUNDRIES</u>			
	<u>Manufactured by approved supplier</u>			
4	Floor mounted door stop - Satin Chrome	No	7.00	
	<u>FURNITURE</u>			
	Carried Forward			R
	Section No. 4 Bill No. 9 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>As per Architects Furniture Schedule Rev.00</u>			
5	3 Tier Shelving Unit - 21mm Saligna: 900x300x1200mmH	No	1.00
6	Round Table: Saligna top with 32mm square steel legs: 1200diametre x 750mmH	No	5.00
7	Secondary Chair - Stackable steel frame, large orange polyprop seat:450mmH	No	20.00
8	Upholstered Side Chair with Arms - Steel main frame, Upholstered seat & back, 450mmH	No	1.00
9	Teachers desk, 2 drawers, small, steel main frame 21mm Saligna top:1200x700x750mm H	No	1.00
10	Bulletin Boards: 2400x1200mm: Carpet Pinning Board	No	1.00
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 9			
IRONMONGERY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 4 : BLOCK 3 MEDIA CENTRE	Quantity	Rate	Amount
	<u>BILL NO.10 - PLUMBING AND DRAINAGE</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>BATHROOM FITTINGS</u>			
	<u>Manufactured by Cobra or similar approved</u>			
1	CERAMIC "RAPIDO" low level, open rim toilet pan with 5L 365mm width x 400mm height with fixing screws to floor. (or equal approved) Code: RT020BA	No	2.00	
2	NDLOVU SHIRES low level front flush cistern white with concealed mounting bracket with heavy duty securing bolts, locally manufactured concealed tamper proof cistern lid screws; front flush chrome plated handle with built-in travel stop; side water inlet.	No	2.00	
3	BUXTON STA-TITE Technoplastic thermoplastic universal toilet seat with chrome-plated hinges with patented fixing system that always stays tight. 100% recyclable. Code: 2850CPT	No	2.00	
	Carried Forward			
	Section No. 4 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		R	

Brought Forward			R
4	COBRA screw-down angle regulating valve for flexible tubes chrome plated. Includes 1/2"(15mm) male inlet and 1/2"(15mm) female outlet, and sliding wall flange. (or equal approved) Code: 232-10	No	2.00
5	COBRA 350mm long; 1/2"(15mm) x 1/2" (15mm) Female to Female Flexible Connector. (or equal approved) Code: C-15/350	No	2.00
6	COBRA "WELCOME" medium wall hung basin. (430 x 390mm) 1 x punched tap hole in centre of basin. Includes wall fixing set. (or equal approved) Code: CWLBAWH2-6DT01	No	2.00
7	COBRA "WELCOME" Round semi-pedestal. 270mm wide x 308mm high. Wall fixing set & installation manual included. (or equal approved) Code: CWLPERD2-6DT01	No	2.00
8	COBRA slotted basin waste with plug, chrome plated. Includes: 62mm diameter flange, 77mm long shank and 32mm BSP male outlet connection with polymer backnut. (or equal approved) Code: 303	No	2.00
9	COBRA basin type bottle trap with 75mm deep seal and telescopic waste connection pipe. 1¼ female inletconnection; 1½ male outlet connection. Brass body, chrome plated. (or equal approved) Code: 350/N	No	2.00
10	GROHE EUROECO Cosmopolitan T Self Closing Pillar Tap. Grohe ECOJOY 5.7lt/min flow limiter with 3 adjustable flow times, short, medium and long. Approx 7; 15; 30 second (Pressure dependant) minimum recommended operation pressure 100kPa . (or equal approved) Code: G-36265000	No	2.00
11	FRANKE RODAN towel roll holder (or equal approved) Code: RODX672	No	2.00
12	FRANKE RODAN soap dispenser (or equal approved) Code: RODX619	No	1.00
13	FRANKE STRATOS paper towel dispenser (or equal approved) Code: STRX637	No	1.00
Carried Forward			R
Section No. 4 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward			
14	FRANKE RODAN waste bin (or equal approved) Code: RODX605	No	1.00	R	
Carried Forward to Summary of Section No. 4					
Section No. 4 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate					R

Item No	Quantity	Rate	Amount
<u>SECTION 4 : BLOCK 3 MEDIA CENTRE</u>			
<u>BILL NO.10 - METALWORKS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, rails, etc			
Description of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<u>DOORS</u>			
<u>Fire Doors</u>			
Fire doors are to be in accordance with SANS 1253			
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>			
Carried Forward			R
Section No. 4 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward		R
<u>General</u>		
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Description of such units shall, therefore, be deemed to include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or vanish finishes, etc</p> <p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p>		
<u>PRESSED STEEL DOOR FRAMES</u>		
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 220mm wall</u></p>		
1	Frame for door 813 x 2032mm high door	No 1.00
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 110mm wall</u></p>		
2	Frame for door 813 x 2032mm high door	No 6.00
<u>ALUMINIUM WINDOWS AND DOORS</u>		
Carried Forward		R
<p>Section No. 4 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		

Brought Forward			R
	<u>Matt light grey powder coated windows Glazed with Obscure glass</u> <u>Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u>		
3	900x900mm Window (W06)	No	19.00
4	900x600mm Window (W08)	No	3.00
	<u>STEEL GATES, SCREENS, ETC</u>		
	<u>Welded screens and gates</u>		
5	Gate 5	No	1.00
Carried Forward to Summary of Section No. 4			R
Section No. 4 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.11 - PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds wood floated, on concrete</u>			
1	25mm Thick screed on surface bed, incl chipping, cleaning and brushing with Cement/Sand slurry before screeding	m2	173.92	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
2	On walls	m2	269.59	
3	On narrow widths	m2	10.00	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
4	On walls	m2	101.29	
	<u>Cement plaster steel trowelled on concrete</u>			
5	Plaster to roof beam	m2	65.05	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 Bill No. 12 PLASTERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.12 - TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon"?) range of products as recommended by the manufacturer of the tiles			
	<u>WALL TILING</u>			
	<u>152x152x6.5mm/5mm Thick Ceramic tiles fixed with adhesive to plaster and flush pointed with tinted grout on floors</u>			
1	On walls	m	5.17	
	<u>SUNDRIES</u>			
	<u>Anodised aluminium corner protectors, stair nosing, expansion joint strips, etc</u>			
2	10mm Straight edge corner protectors	m	1.83	
3	15mm Straight edge weather strip	m	1.00	
4	T-Piece/Expansion	m	10.00	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 Bill No. 13 TILING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 4 : BLOCK 3 MEDIA CENTRE	Quantity	Rate	Amount
	<u>BILL NO.14 - GLAZING</u>			
	<u>SECTION 2 : BLOCK 1 ADMIN</u>			
	<u>BILL NO.14 - GLAZING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Float glass</u>			
	The term "float glass" is used for monolithic glass			
	<u>MIRRORS</u>			
	<u>Silvered floated glass copper backed mirrors with polished edges, fixed to wall with double sided adhesive tape and silicone</u>			
1	Mirror 450 x 600mm high	No	2	
	Carried Forward to Summary of Section No. 4			
	Section No. 4 Bill No. 14 GLAZING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			R

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.13 - PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with Architect specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
1	Walls	m2	279.18	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
2	Walls and beams	m2	166.33	
	<u>ON FIBRE-CEMENT SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
3	Fascia and barge boards not exceeding 300mm girth, including priming metal jointing strips	m2	32.63	
	Carried Forward			R
	Section No. 4 Bill No. 15 PAINTWORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
4	Ceilings and cornices	m2	141.27
<u>ON METAL SURFACES</u>			
<u>One coat metal primer and two coats Plascon Velvegro, on steel</u>			
5	Door frames	m2	6.60
6	Gates	m2	4.00
<u>ON WOOD SURFACES</u>			
<u>One coat primer and two coats premium quality polyurethane enamel paint</u>			
7	External door	m2	3.31
<u>Three coats superior quality clear matt varnish</u>			
8	Internal Door	m2	19.83
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 15			
PAINTWORK			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

SECTION SUMMARY - SECTION 4 : BLOCK 3 MEDIA CENTRE

Bill No		Page No	Amount
1	EARTHWORKS (PROVISIONAL)	69	
2	CONCRETE, FORMWORK AND REINFORCEMENT	72	
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Carried to Final Summary			
Section No. 4			
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			R

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.1 - EARTHWORKS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Nature of ground			
	The tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" 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 truck directly from the excavation or alternatively, from stock piles situated on the building site			
	Excavation			
	No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. " Soft rock" and "hard rock" shall be as defined in "Earthworks"			
	Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill			
	<u>EXCAVATIONS</u>			
	<u>Excavations in earth not exceeding 2m deep</u>			
1	Foundations	m3	68.92	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	38.12	
	Carried Forward			R
	Section No. 5 Bill No. 1 EARTHWORKS (PROVISIONAL) Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Keeping excavations free of water</u>		
3	Keeping excavations free of water other than subterranean water (Proven Method and Expenditure)	Item	
	<u>FILLING</u>		
	Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 100mm layers to 93% Mod AASHTO density		
4	Backfilling to strip footings, bases etc	m3	30.81
	<u>Compaction of surfaces</u>		
5	To loosen excavated surface and re-compact ground surface under strip footings and surface bed etc. by wetting and compacting to 93% Mod AASTHO	m2	172.85
	<u>Prescribed density tests on filling</u>		
6	"Modified AASTHO Density" test	No	3.45
	<u>SOIL POISONING</u>		
	Soil insecticide in accordance with Architects Specifications		
7	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	168.18
8	To bottoms and sides of trenches etc	m2	257.55
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 1			
EARTHWORKS (PROVISIONAL)			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 4 : BLOCK 3 MEDIA CENTRE)	Quantity	Rate	Amount
	<u>BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of test</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings and Column Bases	m3	13.54	
2	Surface beds on waterproofing	m3	11.55	
3	Columns	m3	0.29	
4	Apron	m3	6.03	
	Carried Forward			R
	Section No. 5 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

			Brought Forward		R
5	Roof Beam	m3	4.00		
<u>SMOOTH FORMWORK</u>					
<u>Smooth formwork to soffits</u>					
6	Roof Beam	m2	51.88		
<u>TEST CUBES</u>					
7	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	4.00		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top of surface bed smooth with a power float</u>					
8	Surface beds, slabs, etc	m2	116.00		
<u>Finishing top of surface bed smooth with a wood float</u>					
9	Apron	m2	106.00		
<u>MOVEMENT JOINT</u>					
<u>10mm Expansion joint with closed cell expanded polyethylene foam (or similar approved) with field moulded sealant between surface bed and brick surfaces</u>					
10	Not exceeding 300mm high to edges of surface bed	m	117.33		
			Carried Forward		R
Section No. 5 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate					

Brought Forward			R
	<u>10mm Construction joint between vertical concrete surfaces, debonded with Lime Wash or Bitumen, groove and sealant saw cut filled with Polysulphide sealant Durakol 25 or Similar approved with Polyethylene bond breaker backing tape</u>		
11	Surface beds and Apron not exceeding 300mm thick	m	20.44
	<u>Saw cut joint with Mutlipoxy 1308</u>		
12	Surface bed not exceeding 300mm thick	m	29.13
<u>REINFORCEMENT</u>			
	<u>Mild steel reinforcement for structural concrete work</u>		
13	8mm diameter bars	t	0.14
	<u>High tensile reinforcement for structural concrete work</u>		
14	8mm Diameter bars	t	
15	10mm Diameter bars	t	0.48
16	12mm Diameter bars	t	0.30
	<u>Fabric mesh reinforcement</u>		
17	Type Ref 193 fabric reinforcement in concrete slabs etc.	m2	168.18
18	Type Ref 100 fabric reinforcement on ceilings	m2	91.51

Carried Forward to Summary of Section No. 5

Section No. 5
Bill No. 2
CONCRETE, FORMWORK AND REINFORCEMENT
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

R

Brought Forward			R
8	Columns	m3	1.25
<u>BRICKWORK SUNDRIES</u>			
<u>2.5mm Brickwork Reinforcement</u>			
9	75mm Wide built in horizontally	m	441.91
10	150mm Wide built in horizontally	m	982.16
<u>FACE BRICKWORK</u>			
<u>Moroccan red blend travertine or similar approved face bricks pointed with flush horizontal and vertical joints</u>			
11	Extra over brickwork for face brickwork in foundations (provisional)	m2	11.53
12	Extra over brickwork for face brickwork	m2	77.91
13	Extra over brickwork for brick-on-edge header course lintels 1 course(s) high, pointed on face	m	9.00
<u>Brick-on-edge header coarse copings, sills etc of Moroccan red blend travertine or similar approved face bricks, pointed with recessed joints on all exposed faces</u>			
14	220mm Wide sills set sloping and slightly projected	m	12.00
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 3			
MASONRY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.4 - WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375 micron embossed damp proof course (SABS 9520 Type B)</u>			
1	In walls	m2	40.80	
	<u>One layer of 250 micron damp proof course (SABS Specification 9520 Type C) waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape</u>			
2	Under Surface bed	m2	127.16	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5 Bill No. 4 WATERPROOFING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
<u>BILL NO.5 - ROOF COVERING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>IBR ROOF COVERING</u>			
<u>Guarantees</u>			
<u>The contractor will be required to provide a written guarantee for the roof covering as follows:</u>			
IBR roof covering material - 10 years Workmanship - 10 years			
<u>Certificate for Galvanised Roof Sheeting</u>			
The contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied, complies with the required thickness specified			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
<u>IBR PROFILE SHEETING</u>			
<u>IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting @ 17°, fixed to timber purlins</u>			
1	Roof covering with 17 degree pitch and accessories, including ridge capping, gable and gable trims, flashings etc. Concealed fixed to 76x50mm SA pine Timber purlins @ 1200mm c/c (elsewhere measured)	m2	153.86
Carried Forward			R
Section No. 5 Bill No. 5 ROOF COVERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward

R

ROOF AND WALL INSULATION

Sisalation 405 Reflective foil underlay in accordance with SANS 1381-4 overlapped longitudinally by 100mm; on and including galvanised straining wire spaced at 383mm centres fixed parallel over purlins to manufacturer's instruction

2	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrently with roof covering with minimum 150mm stapled laps including galvanised straining wires at not exceeding 400mm centres and one-sided tape at edges where required (Layer 1) (LI)	m2	146.17
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Carried Forward to Summary of Section No. 5

R

Section No. 5
Bill No. 5
ROOF COVERING
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	Quantity	Rate	Amount
<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
<u>BILL NO.6 - CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres and where described as "bolted", the bolts have been given elsewhere			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, rails, etc			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
Carried Forward			R
Section No. 5 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward		R
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>		
<u>SUPPLEMENTARY PREAMBLES</u>		
Trusses are at maximum 1 200mm centres		
Roof coverings are IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting on purlins		
References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings numbered ? annexed to these bills of quantities (accompanying these bills of quantities?) for tender purposes		
Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences		
<u>Sawn softwood trusses</u>		
1	Roof construction to 17 degree double pitched roof with SA Pine Timber trusses at 1000mm c/c as per roofing specialist design and specification complete with 114 x 38mm SA pine timber wall plates, 76 x 50mm SA pine timber purlins, bracing, platform, laminated beams and support for future solar geysers, etc	m2 153.86
<u>Sundries</u>		
2	30x1.6mm Galvanised steel straps built 600mm deep into brickwork	No 61.39
3	Two Coats creosote on sawn timbers	m2 58.79
4	Engineers Certificate	Item
<u>EAVES, VERGES, ETC</u>		
Carried Forward		R
Section No. 5 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward		R
<u>Medium density plain fibre-cement fascia's and barge boards</u>		
5	Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225x12mm, fixed to 76x50mm SAP timber tilter batten and 38x38mm SAP timber support battens between rafters twice screwed with 12x40mm countersunk brass screws at 900mm c/c to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.	m 27.22
<u>SKIRTINGS</u>		
<u>Fine grained compresses woodpulp / cane purpose made</u>		
6	76 x 19 mm Skirtings, nailed	m 117.33
<u>DOORS</u>		
<u>Masonite backing side hung doors</u>		
7	Hardwood door 44 x 813 x 2032mm with masonite backing, hung to steel frame, including Lockblocks and wood screws	No 2.00
8	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including 400x400mm Aluminium Louvre Grill, Lockblocks and wood screws	No 2.00
9	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including 400x400mm Aluminium Louvre Grill, Lockblocks and wood screws	No 6.00
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>		
<u>SUPPLEMENTARY PREAMBLES</u>		
Carried Forward		R
Section No. 5 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward

R

General

All units shall include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc

Prices are to include for all necessary filler pieces against walls etc

References

Carcasses - white melamine.

Doors and seen ends - petrol blue melamine with impact edging.

Counter tops - melawood in colour supamatt storm grey, square line.

Door / Drawer Handles - 196mm ROCO - square bar stainless steel handle."

Built in cupboards and Shelves

10 As per specialist for the supply and installation of built in cupboards and shelves as indicated on Architectural Drawings

SUM

Carried Forward to Summary of Section No. 5

R

Section No. 5
Bill No. 6
CARPENTRY AND JOINERY
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	Quantity	Rate	Amount
<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
<u>BILL NO.7 - CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
<u>Ceilings</u>			
Unless otherwise described ceilings shall be deemed to be horizontal			
<u>NAILED-UP CEILINGS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Openings</u>			
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc			
Carried Forward			R
Section No. 5 Bill No. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>6mm Everite Nutec ceilings</u>			
1	Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, standard size: 1200x3600mm fixed to 38x50mm SAP timber branderling at 600mm c/c using 32x2,5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations	m2	91.51
2	Extra over ceilings 600x600mm trap door opening with 50x38mm SAP braced frame, filled with top hinged metal panel door. (Colour White)	No	1.00
<u>Hardboard cornices</u>			
3	83mm Masonite coved hardboard cornices nailed to battens at max. 300mm c/c all round.	m	87.14
<u>120mm Flexible fibreglass insulation</u>			
4	120mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of branderling between roof timbers etc	m2	91.51
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 7			
CEILINGS, PARTITIONS AND ACCESS FLOORING			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 4 : BLOCK 3 MEDIA CENTRE)	Quantity	Rate	Amount
	<p><u>BILL NO.8 - FLOOR COVERINGS, WALL LININGS, ETC</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p><u>FLOOR COVERING</u></p> <p><u>300 x 300 x 2mm semi flexible vinyl tiles</u></p>			
1	On floors	m2	115.42	
	<p>Carried Forward to Summary of Section No. 5</p> <p>Section No. 5 Bill No. 8 FLOOR COVERINGS, WALL LININGS, ETC Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			R

Item No		Quantity	Rate	Amount
<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>				
<u>BILL NO.9 - IRONMONGERY</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items</u>				
Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items				
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
On request returnable samples are to be provided to the principal agent for consideration				
<u>LOCKS</u>				
<u>Manufactured by approved supplier</u>				
1	1Pr. Duba One lever handles on plate	No	10.00	
2	Euro profile cylinder SASH Lock - Chrome Plated	No	10.00	
3	66mm Privacy cylinder - Nickle Plated	No	10.00	
<u>SUNDRIES</u>				
<u>Manufactured by approved supplier</u>				
4	Floor mounted door stop - Satin Chrome	No	10.00	
5	Coat Hook	No	4.00	
6	160x160x2mm Push Plate	No	8.00	
Carried Forward				R
Section No. 5 Bill No. 9 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
<u>FURNITURE</u>			
<u>As per Architects Furniture Schedule Rev.00</u>			
7	Teachers desk, 2 drawers, small, steel main frame 21mm Saligna top:1200x700x750mm H	No	1.00
8	Economy Upholstered Side Chair - Steel main frame - blue material 450mmH	No	2.00
9	Grade R Table: Steel frame, Saligna top: 1800x700x500mmH	No	3.00
10	Grade R Chair - Stackable steel frame, small blue polyprop seat: 325mmH	No	20.00
11	Bulletin Boards: 2400x1200mm: Carpet Pinning Board	No	1.00
12	Single Sick Bed: Steel, with mattress: 1905 X 760mm	No	1.00
13	Green Chalkboards: 1200x1500mm: NON-MAGNETIC	No	2.00
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 9			
IRONMONGERY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 4 : BLOCK 3 MEDIA CENTRE	Quantity	Rate	Amount
	<u>BILL NO.10 - PLUMBING AND DRAINAGE</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>BATHROOM FITTINGS</u>			
	<u>Manufactured by Cobra or similar approved</u>			
1	<u>FRANKE Oval A Stainless Steel Wash Hand Basin. Size 304 (18/10) polished stainless steel, 1.2mm gauge. Wall supplied. (or equal approved) Code: 2520029</u>	No	3.00	
2	<u>COBRA "Star" Pillar Open ended Tap, brass chrome plate indices, 3/4" BSP male inlet, flanged backnut. In Accordan DZR Brass, JASWIC listed. (or equal approved) Code: 211</u>	No	3.00	
3	COBRA slotted basin waste with plug, chrome plated. Includes: 62mm diameter flange, 77mm long shank and 32mm BSP male outlet connection with polymer backnut. (or equal approved) Code: 303	No	3.00	
	Carried Forward			R
	Section No. 5 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
4	COBRA basin type bottle trap with 75mm deep seal and telescopic waste connection pipe. 1¼ female inletconnection; 1½ male outlet connection. Brass body, chrome plated. (or equal approved) Code: 350/N	No	3.00
5	<u>NEOPERL PCW-02 washer regulator @ 2lt/min; flexible pressure compensating. Fits 1/2" bib and pillar taps. (or eq</u>	No	3.00
6	<u>LECICO Ceramic Vitreous China Junior School Pan and approved) Codes: WC: SCHDUOFLOOSTDUE Seat: SCH</u>	No	2.00
7	NDLOVU SHIRES low level front flush cistern white with concealed mounting bracket with heavy duty securing bolts, locally manufactured concealed tamper proof cistern lid screws; front flush chrome plated handle with built-in travel stop; side water inlet.	No	2.00
8	COBRA screw-down angle regulating valve for flexible tubes chrome plated. Includes 1/2"(15mm) male inlet and 1/2"(15mm) female outlet, and sliding wall flange. (or equal approved) Code: 232-10	No	2.00
9	COBRA 350mm long; 1/2"(15mm) x 1/2" (15mm) Female to Female Flexible Connector. (or equal approved) Code: C-15/350	No	2.00
10	FRANKE RODAN towel roll holder (or equal approved) Code: RODX672	No	2.00
11	FRANKE RODAN soap dispenser (or equal approved) Code: RODX619	No	3.00
12	<u>FRANKE RODAN electronic hand dryer (or equal approve</u>	No	1.00
13	<u>CUBICLE SOLUTIONS prefabricated bench constructed high pressure laminate boards. (or equal approved) Colou</u>	No	1.00
Carried Forward			R
Section No. 5 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
14	COBRA "WELCOME" Round semi-pedestal. 270mm wide x 308mm high. Wall fixing set & installation manual included. (or equal approved) Code: CWLPERD2-6DT01	No	1.00
15	COBRA slotted basin waste with plug, chrome plated. Includes: 62mm diameter flange, 77mm long shank and 32mm BSP male outlet connection with polymer backnut. (or equal approved) Code: 303	No	1.00
16	COBRA basin type bottle trap with 75mm deep seal and telescopic waste connection pipe. 1¼ female inletconnection; 1½ male outlet connection. Brass body, chrome plated. (or equal approved) Code: 350/N	No	1.00
17	COBRA Elbow actionpillar tap. With 1/4 turn ceramic disc blue indice for cold water application. 1/2"(15mm)BSP mal approved) Code: FEAPILEA-5JT01	No	1.00
18	<u>NEOPERL PCW-02 washer regulator @ 2lt/min; flexible pressure compensating. Fits 1/2" bib and pillar taps. (or eq</u>	No	1.00
Carried Forward to Summary of Section No. 5			R
Section No. 5 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<p><u>SECTION 4 : BLOCK 3 MEDIA CENTRE</u></p>			
<p><u>BILL NO.10 - METALWORKS</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.</p>			
<p><u>Joinery</u></p>			
<p>Descriptions of frames shall be deemed to include frames, transoms, rails, etc</p>			
<p>Description of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
<p><u>DOORS</u></p>			
<p><u>Fire Doors</u></p>			
<p>Fire doors are to be in accordance with SANS 1253</p>			
<p><u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u></p>			
<p>Carried Forward</p>		R	
<p>Section No. 5 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Brought Forward		R
<u>General</u>		
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Description of such units shall, therefore, be deemed to include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or vanish finishes, etc</p> <p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p>		
<u>PRESSED STEEL DOOR FRAMES</u>		
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 220mm wall</u></p>		
1	Frame for door 813 x 2032mm high door	No 2.00
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 110mm wall</u></p>		
2	Frame for door 813 x 2032mm high door	No 8.00
<u>ALUMINIUM WINDOWS AND DOORS</u>		
Carried Forward		R
<p>Section No. 5 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		

Brought Forward			R
	<p><u>Matt light grey powder coated windows Glazed with GSA SmartGlass - Neutral Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u></p>		
3	900x1200mm Window (W05)	No	8.00
	<p><u>Matt light grey powder coated windows Glazed with Obscure glass Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u></p>		
4	600x900mm Window (W04)	No	3.00
5	900x900mm Window (W06)	No	3.00
	<u>STEEL GATES, SCREENS, ETC</u>		
	<u>Welded screens and gates</u>		
6	Gate 5	No	2.00
Carried Forward to Summary of Section No. 5			R
<p>Section No. 5 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.11 - PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds wood floated, on concrete</u>			
1	25mm Thick screed on surface bed, incl chipping, cleaning and brushing with Cement/Sand slurry before screeding	m2	115.42	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
2	On walls	m2	212.85	
3	On narrow widths	m2	9.00	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
4	On walls	m2	105.59	
	<u>Cement plaster steel trowelled on concrete</u>			
5	Plaster to roof beam	m2	51.88	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5 Bill No. 12 PLASTERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 4 : BLOCK 3 MEDIA CENTRE)	Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.12 - TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon"?) range of products as recommended by the manufacturer of the tiles			
	<u>WALL TILING</u>			
	<u>152x152x6.5mm/5mm Thick Ceramic tiles fixed with adhesive to plaster and flush pointed with tinted grout on floors</u>			
1	On walls	m	2.01	
	<u>SUNDRIES</u>			
	<u>Anodised aluminium corner protectors, stair nosing, expansion joint strips, etc</u>			
2	10mm Straight edge corner protectors	m	4.56	
3	15mm Straight edge weather strip	m	2.00	
4	T-Piece/Expansion	m	10.00	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5 Bill No. 13 TILING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 4 : BLOCK 3 MEDIA CENTRE	Quantity	Rate	Amount
	<u>BILL NO.14 - GLAZING</u>			
	<u>SECTION 2 : BLOCK 1 ADMIN</u>			
	<u>BILL NO.14 - GLAZING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Float glass</u>			
	The term "float glass" is used for monolithic glass			
	<u>MIRRORS</u>			
	<u>Silvered floated glass copper backed mirrors with polished edges, fixed to wall with double sided adhesive tape and silicone</u>			
1	Mirror 450 x 600mm high	No	5	
	Carried Forward to Summary of Section No. 5			
	Section No. 5 Bill No. 14 GLAZING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			R

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : BLOCK 3 MEDIA CENTRE)</u>			
	<u>BILL NO.13 - PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with Architect specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
1	Walls	m2	220.87	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
2	Walls and beams	m2	157.46	
	<u>ON FIBRE-CEMENT SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
3	Fascia and barge boards not exceeding 300mm girth, including priming metal jointing strips	m2	13.89	
	Carried Forward			R
	Section No. 5 Bill No. 15 PAINTWORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
4	Ceilings and cornices	m2	91.51
<u>ON METAL SURFACES</u>			
<u>One coat metal primer and two coats Plascon Velvegro, on steel</u>			
5	Door frames	m2	9.42
6	Gates	m2	7.00
<u>ON WOOD SURFACES</u>			
<u>One coat primer and two coats premium quality polyurethane enamel paint</u>			
7	External door	m2	6.61
<u>Three coats superior quality clear matt varnish</u>			
8	Internal Door	m2	26.44
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 15			
PAINTWORK			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

SECTION SUMMARY - SECTION 5: BLOCK 4 GRADE R CLASSROOM

Bill No		Page No		Amount
1	EARTHWORKS (PROVISIONAL)	100		
2	CONCRETE, FORMWORK AND REINFORCEMENT	103		
3	MASONRY	105		
4	WATERPROOFING	106		
5	ROOF COVERING	108		
6	CARPENTRY AND JOINERY	112		
7	CEILINGS, PARTITIONS AND ACCESS FLOORING	114		
8	FLOOR COVERINGS, WALL LININGS, ETC	115		
9	IRONMONGERY	117		
10	PLUMBING AND DRAINAGE	120		
11	METALWORKS	123		
12	PLASTERING	124		
13	TILING	125		
14	GLAZING	126		
15	PAINTWORK	128		
Carried to Final Summary			R	
Section No. 5 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No	Quantity	Rate	Amount
<p><u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u></p>			
<p><u>BILL NO.1 - ALTERATIONS</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>View site</u></p>			
<p>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</p>			
<p><u>General</u></p>			
<p>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</p>			
<p>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</p>			
<p>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 ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p>			
<p>Carried Forward</p>			
<p>Section No. 6 Bill No. 1 ALTERATIONS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		R	

Brought Forward			R
<p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p>			
<u>REMOVAL OF EXISTING WORK</u>			
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>			
1	85mm Thick surface beds	m2	1.00
<u>Breaking down and removing brickwork etc</u>			
2	Half brick walls	m2	12.00
3	One brick walls	m2	4.00
Carried Forward			R
<p>Section No. 6 Bill No. 1 ALTERATIONS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Brought Forward			R
	<u>Taking out and removing doors, windows, etc, including thresholds, sills, etc to be demolished (building up openings (if required) and making good finishes elsewhere)</u>		
4	Timber single door only not exceeding 2,5m ²	No	8.00
5	Timber single door and steel frame not exceeding 2,5m ²	No	3.00
6	Glazed steel window not exceeding 2,5m ²	No	14.00
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>		
7	<u>Gypsum plasterboard ceilings, including cornices, timber brandering, etc</u>	m2	46.88
	<u>Taking out and removing ironmongery</u>		
8	Towel rail not exceeding 1000mm long from wall	No	3.00
9	Toilet paper holder from wall	No	1.00
10	Soap Dispenser	No	3.00
	<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>		
11	Tiles to floors	m2	47.00
12	Tiles to walls	m2	3.00
13	Tile skirtings 100mm high	m	58
14	Tiles on concrete vanity slabs	m2	4
	<u>Taking out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
15	Vitreous china wash hand basin, including short lengths of piping, etc	No	1.00
	Carried Forward		R
	Section No. 6 Bill No. 1 ALTERATIONS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward			R
16	Vitreous china WC pan with cistern, including short lengths of piping, etc	No	1.00
17	Vitreous china wall hung urinal with flush valve, including short lengths of piping, etc.	No	1.00
<u>Taking out/off and removing glass and mirrors</u>			
18	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	7
19	Mirror 600 x 450mm high from wall including making good white glazed tiles	No	3
<u>BUILDING UP OPENINGS</u>			
<u>Brickwork in face bricks (same as existing) in class II mortar in building up openings, pointed with recessed horizontal and vertical joints, including bonding new to existing and making good cement</u>			
20	Half brick walls	m2	12
21	One brick walls	m2	8
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 1			
ALTERATIONS			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	<u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u>	Quantity	Rate	Amount
	<u>BILL NO.2 - EARTHWORKS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Nature of ground			
	The tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to included all ground conditions classifiable as "earth" 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 truck directly from the excavation or alternatively, from stock piles situated on the building site			
	Excavation			
	No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. " Soft rock" and "hard rock" shall be as defined in "Earthworks"			
	Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill			
	<u>EXCAVATIONS</u>			
	<u>Excavations in earth not exceeding 2m deep</u>			
1	Foundations	m3	1.55	
	Carried Forward		R	
	Section No. 6 Bill No. 2 EARTHWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>FILLING</u>			
Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 100mm layers to 93% Mod AASHTO density			
2	Backfilling to strip footings, bases etc	m3	0.86
<u>Compaction of surfaces</u>			
3	To loosen excavated surface and re-compact ground surface under strip footings and surface bed etc. by wetting and compacting to 93% Mod AASTHO	m2	1.29
<u>SOIL POISONING</u>			
Soil insecticide in accordance with Architects Specifications			
4	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	0.56
5	To bottoms and sides of trenches etc	m2	5.71
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 2			
EARTHWORKS			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u>			
	<u>BILL NO.3 - CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of test</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings and Column Bases	m3	0.30	
2	Surface beds on waterproofing	m3	0.47	
	Carried Forward			R
	Section No. 6 Bill No. 3 CONCRETE, FORMWORK & REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>TEST CUBES</u>			
3	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	1.00
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top of surface bed smooth with a power float</u>			
4	Surface beds, slabs, etc	m2	1.00
<u>Finishing top of surface bed smooth with a wood float</u>			
5	Apron	m2	
<u>MOVEMENT JOINT</u>			
<u>20mm Expansion joint with closed cell expanded polyethylene foam (or similar approved) with field moulded sealant between surface bed and brick surfaces</u>			
6	Not exceeding 300mm high to edges of surface bed	m	0.60
<u>REINFORCEMENT</u>			
<u>High tensile reinforcement for structural concrete work</u>			
7	8mm Diameter bars	t	
<u>Fabric mesh reinforcement</u>			
8	Type Ref 193 fabric reinforcement in concrete slabs etc.	m2	0.55
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 3			
CONCRETE, FORMWORK & REINFORCEMENT			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u>			
	<u>BILL NO.4 - MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Face bricks</u>			
	Bricks shall be ordered timorously to obtain uniformity in size and colour			
	<u>FOUNDATION BRICKWORK</u>			
	<u>Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227)</u>			
1	One brick walls	m2	2.26	
	<u>BRICKWORK SUNDRIES</u>			
	<u>2.5mm Brickwork Reinforcement</u>			
2	150mm Wide built in horizontally	m	8.88	
	Carried Forward to Summary of Section No. 6			R
	Section No. 6 Bill No. 4 MASONRY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 6 : EXISTING ABLUTIONS ALTERATIONS	Quantity	Rate	Amount
	<p><u>BILL NO.5 - WATERPROOFING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer 375 micron embossed damp proof course (SABS 9520 Type B)</u></p>			
1	In walls	m2	0.58	
	<p><u>One layer of 250 micron damp proof course (SABS Specification 9520 Type C) waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape</u></p>			
2	Under Surface bed	m2	0.56	
	<p>Carried Forward to Summary of Section No. 6</p>			R
	<p>Section No. 6 Bill No. 5 WATERPROOFING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Item No	Quantity	Rate	Amount
<p><u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u></p>			
<p><u>BILL NO.7 - CARPENTRY AND JOINERY</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres and where described as "bolted", the bolts have been given elsewhere</p>			
<p><u>Joinery</u></p>			
<p>Descriptions of frames shall be deemed to include frames, transoms, rails, etc</p>			
<p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
<p>Carried Forward</p>			<p>R</p>
<p>Section No. 6 Bill No. 6 CARPENTRY & JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Brought Forward

R

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION ETC**

SUPPLEMENTARY PREAMBLES

Trusses are at maximum 1 200mm centres

Roof coverings are IBR-profile 0.58mm thick Z275
spelter galvanised steel roof sheeting on purlins

References given in descriptions refer to the respective
types of trusses detailed on the architect's/engineer's
drawings numbered ? annexed to these bills of
quantities (accompanying these bills of quantities?) for
tender purposes

Dimensions in descriptions of trusses are nominal and
actual measurements are to be obtained from the
architect/engineer and/or taken on site before design or
fabrication commences

DOORS

Masonite backing side hung doors

1	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including 400x400mm Aluminium Louvre Grill, Lockblocks and wood screws	No	7.00
2	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including 400x400mm Aluminium Louvre Grill, Lockblocks and wood screws	No	3.00

Carried Forward to Summary of Section No. 6

R

Section No. 6
Bill No. 6
CARPENTRY & JOINERY
Tshedimoso Elemental Estimate Rev02
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Item No	Quantity	Rate	Amount
<p><u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u></p>			
<p><u>BILL NO.8 - CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p>			
<p><u>Ceilings</u></p>			
<p>Unless otherwise described ceilings shall be deemed to be horizontal</p>			
<p><u>NAILED-UP CEILINGS</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Openings</u></p>			
<p>Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc</p>			
<p>Carried Forward</p>			
<p>Section No. 6 Bill No. 7 CEILINGS, PARTITIONS & ACCESS FLOORING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		R	

Brought Forward			R
<u>6mm Everite Nutec ceilings</u>			
1	Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, standard size: 1200x3600mm fixed to 38x50mm SAP timber brandering at 600mm c/c using 32x2,5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations	m2	46.88
2	Extra over ceilings 600x600mm trap door opening with 50x38mm SAP braced frame, filled with top hinged metal panel door. (Colour White)	No	1.00
<u>Hardboard cornices</u>			
3	83mm Masonite coved hardboard cornices nailed to battens at max. 300mm c/c all round.	m	90.90
<u>120mm Flexible fibreglass insulation</u>			
4	120mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc	m2	46.88
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 7			
CEILINGS, PARTITIONS & ACCESS FLOORING			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
<u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u>				
<u>BILL NO.9 - IRONMONGERY</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items</u>				
Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items				
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
On request returnable samples are to be provided to the principal agent for consideration				
<u>LOCKS</u>				
<u>Manufactured by approved supplier</u>				
1	1Pr. Duba One lever handles on plate	No	10.00	
2	Euro profile cylinder SASH Lock - Chrome Plated	No	10.00	
3	66mm Privacy cylinder - Nickle Plated	No	10.00	
<u>SUNDRIES</u>				
<u>Manufactured by approved supplier</u>				
4	Floor mounted door stop - Satin Chrome	No	10.00	
5	Cleat Hook	No	10.00	
6	160x160x2mm Push Plate	No	10.00	
Carried Forward to Summary of Section No. 6				R
Section No. 6 Bill No. 8 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No	SECTION 6 : EXISTING ABLUTIONS ALTERATIONS	Quantity	Rate	Amount
	<p><u>BILL NO.10 - PLUMBING AND DRAINAGE</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items</u></p> <p>Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p> <p><u>BATHROOM FITTINGS</u></p> <p><u>Manufactured by Cobra or similar approved</u></p>			
1	LECICO ATLAS raised paraplegic closed couple water closet with side lever; wall mounted dodleg grab rail and cistern grab rail combo. W=443mm H=855mm D=731mm White vitreous china. (or equal approved) Code: PARSETCCB0RAIBE	No	1.00	
2	BUXTON STA-TITE Technoplastic thermoplastic universal toilet seat with chrome-plated hinges with patented fixing system that always stays tight. 100% recyclable. Code: 2850CPT	No	1.00	
3	COBRA screw-down angle regulating valve for flexible tubes chrome plated. Includes 1/2"(15mm) male inlet and 1/2"(15mm) female outlet, and sliding wall flange. (or equal approved) Code: 232-10	No	1.00	
	Carried Forward			R
	<p>Section No. 6 Bill No. 9 PLUMBING & DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Brought Forward			R
4	COBRA 350mm long; 1/2"(15mm) x 1/2" (15mm) Female to Female Flexible Connector. (or equal approved) Code: C-15/350	No	1.00
5	COBRA "WELCOME" medium wall hung basin. (430 x 390mm) 1 x punched tap hole in centre of basin. Includes wall fixing set. (or equal approved) Code: CWLBAWH2-6DT01	No	1.00
6	COBRA slotted basin waste with plug, chrome plated. Includes: 62mm diameter flange, 77mm long shank and 32mm BSP male outlet connection with polymer backnut. (or equal approved) Code: 303	No	1.00
7	COBRA basin type bottle trap with 75mm deep seal and telescopic waste connection pipe. 1¼ female inletconnection; 1½ male outlet connection. Brass body, chrome plated. (or equal approved) Code: 350/N	No	1.00
8	COBRA Elbow actionpillar tap. With 1/4 turn ceramic disc headpart, flanged backnut and blue indice for cold water application. 1/2" (15mm) BSP male iron connection end. (or equal approved) Code: FEAPIEA-5JT01	No	1.00
9	FRANKE RODAN electrical hand dryer (or equal approved) Code: RODX310	No	1.00
10	FRANKE EXOS toilet roll holder (or equal approved) Code: RODX672	No	1.00
11	ICONOMY simple shelf (or equal approved) Code: RODX619	No	1.00
12	FRANKE RODAN soap dispenser (or equal approved) Code: RODX619	No	1.00
13	Make good, restore, replace existing sanitary ware to comply to standards.		Item
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 9			
PLUMBING & DRAINAGE			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u>			
<u>BILL NO.11 - METALWORKS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, rails, etc			
Description of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<u>DOORS</u>			
<u>Fire Doors</u>			
Fire doors are to be in accordance with SANS 1253			
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>			
Carried Forward		R	
Section No. 6 Bill No. 10 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward		R
<u>General</u>		
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Description of such units shall, therefore, be deemed to include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or vanish finishes, etc</p> <p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p>		
<u>PRESSED STEEL DOOR FRAMES</u>		
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 110mm wall</u></p>		
1	Frame for door 813 x 2032mm high door	No 10.00
<u>ALUMINIUM WINDOWS AND DOORS</u>		
<p><u>Matt light grey powder coated windows Glazed with Obscure glass</u> <u>Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval..</u></p>		
2	900X600mm Window (W08)	No 3.00
3	1545X600mm Window (W11)	No 11.00
Carried Forward to Summary of Section No. 6		R
<p>Section No. 6 Bill No. 10 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		

Item No		Quantity	Rate	Amount
	<u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u>			
	<u>BILL NO.12 - PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds wood floated, on concrete</u>			
1	25mm Thick screed on surface bed, incl chipping, cleaning and brushing with Cement/Sand slurry before screeding	m2	42.88	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
2	On walls	m2	384.41	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
3	On walls	m2	174.47	
	Carried Forward to Summary of Section No. 6			
	Section No. 6			
	Bill No. 11			
	PLASTERING			
	Tshedimoso Elemental Estimate Rev02			
	Stage 3 - Elemental Estimate			
			R	

Item No		Quantity	Rate	Amount
	<u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u>			
	<u>SECTION 2 : BLOCK 1 ADMIN</u>			
	<u>BILL NO.13 - TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon"?) range of products as recommended by the manufacturer of the tiles			
	<u>WALL TILING</u>			
	<u>152x152x6.5mm/5mm Thick Ceramic tiles fixed with adhesive to plaster and flush pointed with tinted grout on floors</u>			
1	On walls	m2	2.31	
2	On Vanity Counter	m2	5.00	
	<u>FLOOR TILING</u>			
	Carried Forward			R
	Section No. 6 Bill No. 12 TILING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>350x350x6.5mm/5mm Thick Ceramic tiles fixed with adhesive to plaster and flush pointed with tinted grout on floors</u>		
3	On floors	m2	42.88
	<u>SUNDRIES</u>		
	<u>Anodised aluminium corner protectors, stair nosing, expansion joint strips, etc</u>		
4	10mm Straight edge corner protectors	m	9.05
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 12			
TILING			
Tshedimoso Elemental Estimate Rev02			
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Item No		Quantity	Rate	Amount
	<u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u>			
	<u>BILL NO.14 - GLAZING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Float glass</u>			
	The term "float glass" is used for monolithic glass			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
1	4mm obscure glass	m2	7	
	<u>MIRRORS</u>			
	<u>Silvered floated glass copper backed mirrors with polished edges, fixed to wall with double sided adhesive tape and silicone</u>			
2	Mirror 450 x 600mm high	No	8	
	Carried Forward to Summary of Section No. 6			R
	Section No. 6 Bill No. 13 GLAZING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 6 : EXISTING ABLUTIONS ALTERATIONS</u>			
	<u>BILL NO.15 - PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with Architect specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
1	Walls	m2	384.41	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
2	Walls and beams	m2	174.47	
	<u>ON FIBRE-CEMENT SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
3	Fascia and barge boards not exceeding 300mm girth, including priming metal jointing strips	m2	8.46	
	Carried Forward			R
	Section No. 6 Bill No. 14 PAINTWORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
4	Ceilings and cornices	m2	42.88
<u>ON METAL SURFACES</u>			
<u>One coat metal primer and two coats Plascon Velvegro, on steel</u>			
5	Door frames	m2	9.42
<u>ON WOOD SURFACES</u>			
<u>Three coats superior quality clear matt varnish</u>			
6	Internal Door	m2	33.05
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 14			
PAINTWORK			
Tshedimoso Elemental Estimate Rev02			
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Carried to Final Summary			R
Section No. 6 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<p><u>SECTION 7 : ALTERATIONS TO EXISTING CLASSROOMS</u></p>			
<p><u>BILL NO.1 - ALTERATIONS</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>View site</u></p>			
<p>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</p>			
<p><u>General</u></p>			
<p>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</p>			
<p>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</p>			
<p>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 ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p>			
<p>Carried Forward</p>			
<p>Section No. 7 Bill No. 1 ALTERATIONS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		R	

Brought Forward		R
<p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p>		
<u>REMOVAL OF EXISTING WORK</u>		
<u>Taking out and removing doors, windows, etc, including thresholds, sills, etc to be demolished (building up openings (if required) and making good finishes elsewhere)</u>		
1	Glazed steel window not exceeding 2,5m ² No	48.00
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>		
2	<u>Gypsum plasterboard ceilings, including cornices, timber brandering, etc</u> m2	345.29
Carried Forward		R
<p>Section No. 7 Bill No. 1 ALTERATIONS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		

Brought Forward			R
	<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>		
3	Tiles to floors	m2	345.29
4	Tile skirtings 100mm high	m	210
Carried Forward to Summary of Section No. 7			R
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Tshedimoso Elemental Estimate Rev02			
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Item No	Quantity	Rate	Amount
<p><u>SECTION 7 : ALTERATIONS TO EXISTING CLASSROOMS</u></p>			
<p><u>BILL NO.7 - CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p>			
<p><u>Ceilings</u></p>			
<p>Unless otherwise described ceilings shall be deemed to be horizontal</p>			
<p><u>NAILED-UP CEILINGS</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Openings</u></p>			
<p>Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc</p>			
<p>Carried Forward</p>			
<p>Section No. 7 Bill No. 2 CEILINGS, PARTITIONS AND ACCESS FLOORING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		R	

Brought Forward			R
<u>6mm Everite Nutec ceilings</u>			
1	Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, standard size: 1200x3600mm fixed to 38x50mm SAP timber brandering at 600mm c/c using 32x2,5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations	m2	345.29
2	Extra over ceilings 600x600mm trap door opening with 50x38mm SAP braced frame, filled with top hinged metal panel door. (Colour White)	No	4.00
<u>Hardboard cornices</u>			
3	83mm Masonite coved hardboard cornices nailed to battens at max. 300mm c/c all round.	m	210.33
<u>120mm Flexible fibreglass insulation</u>			
4	120mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc	m2	345.29
Carried Forward to Summary of Section No. 7			R
Section No. 7			
Bill No. 2			
CEILINGS, PARTITIONS AND ACCESS FLOORING			
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Item No		Quantity	Rate	Amount
	<u>SECTION 7 : ALTERATIONS TO EXISTING CLASSROOMS</u>			
	<u>BILL NO.8 - FLOOR COVERINGS, WALL LININGS, ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc			
	<u>FLOOR COVERING</u>			
	<u>300 x 300 x 2mm semi flexible vinyl tiles</u>			
1	On floors	m2	345.29	
	Carried Forward to Summary of Section No. 7			
	Section No. 7 Bill No. 3 FLOOR COVERINGS, WALL LININGS, ETC Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			R

Item No	SECTION 7 : ALTERATIONS TO EXISTING CLASSROOMS	Quantity	Rate	Amount
	<u>BILL NO.9 - IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>FURNITURE</u>			
	<u>As per Architects Furniture Schedule Rev.00</u>			
1	Teachers desk, 2 drawers, small, steel main frame 21mm Saligna top:1200x700x750mm H	No	2.00	
2	Economy Upholstered Side Chair - Steel main frame - blue material 450mmH	No	2.00	
3	Double Lower Primary Table - Stackable Steel Frame, Saligna Top:1000x450x575mmH	No	16.00	
4	Lower Primary Chair - Stackable steel frame, small blue polyprop seat: 350mmH	No	50.00	
5	Stationery Cupboard, 2 Doors - Edged Natural Oak Melamine: 900x360x1500mmH	No	2.00	
	Carried Forward			R
	Section No. 7 Bill No. 4 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
6	Green Chalkboards: 1200x1500mm: NON-MAGNETIC	No	8.00
7	Bulletin Boards: 2400x1200mm: Carpet Pinning Board	No	4.00
 Carried Forward to Summary of Section No. 7			 R
Section No. 7 Bill No. 4 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 7 : ALTERATIONS TO EXISTING CLASSROOMS</u>			
<u>BILL NO.10 - METALWORKS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, rails, etc			
Description of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<u>DOORS</u>			
<u>Fire Doors</u>			
Fire doors are to be in accordance with SANS 1253			
<u>ALUMINIUM WINDOWS AND DOORS</u>			
Carried Forward			R
Section No. 7 Bill No. 5 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<p><u>Matt light grey powder coated windows Glazed with GSA SmartGlass - Neutral Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u></p>		
1	1045x1533mm Window (W09)	No	18.00
2	1500x1533mm Window (W10)	No	15.00
	<p><u>Matt light grey powder coated windows Glazed with Obscure glass Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval..</u></p>		
3	1545X600mm Window (W11)	No	15.00
Carried Forward to Summary of Section No. 7			R
<p>Section No. 7 Bill No. 5 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Item No		Quantity	Rate	Amount
	<u>SECTION 7 : ALTERATIONS TO EXISTING CLASSROOMS</u>			
	<u>BILL NO.12 - PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with Architect specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
1	Walls	m2	635.09	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
2	Walls and beams	m2	528.15	
	<u>ON FIBRE-CEMENT SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
3	Fascia and barge boards not exceeding 300mm girth, including priming metal jointing strips	m2	80.49	
	Carried Forward			R
	Section No. 7 Bill No. 6 PAINTWORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
4	Ceilings and cornices	m2	345.29
<u>ON METAL SURFACES</u>			
<u>One coat metal primer and two coats Plascon Velvegro, on steel</u>			
5	Door frames	m2	7.54
<u>ON WOOD SURFACES</u>			
<u>One coat primer and two coats premium quality polyurethane enamel paint</u>			
6	External door	m2	26.44
Carried Forward to Summary of Section No. 7			R
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Bill No. 6			
PAINTWORK			
Tshedimoso Elemental Estimate Rev02			
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3	FLOOR COVERINGS, WALL LININGS, ETC	161	
4	IRONMONGERY	163	
5	METALWORKS	165	
6	PAINTWORK	167	

Carried to Final Summary

R

Section No. 7
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	SECTION 8 : SECURITY GUARD HOUSE	Quantity	Rate	Amount
	<u>BILL NO.1 - EARTHWORKS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Nature of ground			
	The tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" 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 truck directly from the excavation or alternatively, from stock piles situated on the building site			
	Excavation			
	No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. " Soft rock" and "hard rock" shall be as defined in "Earthworks"			
	Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill			
	<u>EXCAVATIONS</u>			
	<u>Excavations in earth not exceeding 2m deep</u>			
1	Foundations	m3	11.67	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	8.28	
	Carried Forward			R
	Section No. 8 Bill No. 1 EARTHWORKS (PROVISIONAL) Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Keeping excavations free of water</u>		
3	Keeping excavations free of water other than subterranean water (Proven Method and Expenditure)	Item	
	<u>FILLING</u>		
	Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 100mm layers to 93% Mod AASHTO density		
4	Backfilling to strip footings, bases etc	m3	3.39
	<u>Compaction of surfaces</u>		
5	To loosen excavated surface and re-compact ground surface under strip footings and surface bed etc. by wetting and compacting to 93% Mod AASTHO	m2	17.53
	<u>Prescribed density tests on filling</u>		
6	"Modified AASTHO Density" test	No	1.00
	<u>SOIL POISONING</u>		
	Soil insecticide in accordance with Architects Specifications		
7	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	22.92
8	To bottoms and sides of trenches etc	m2	43.34
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Bill No. 1			
EARTHWORKS (PROVISIONAL)			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 8 : SECURITY GUARD HOUSE	Quantity	Rate	Amount
	<u>BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of test</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings and Column Bases	m3	2.24	
2	Surface beds on waterproofing	m3	0.79	
3	Apron	m3	1.76	
4	Roof Beam	m3	1.00	
	Carried Forward			R
	Section No. 8 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>SMOOTH FORMWORK</u>			
<u>Smooth formwork to soffits</u>			
5	Roof Beam	m2	11.20
<u>TEST CUBES</u>			
6	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	1.00
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top of surface bed smooth with a power float</u>			
7	Surface beds, slabs, etc	m2	8.00
<u>Finishing top of surface bed smooth with a wood float</u>			
8	Apron	m2	31.00
<u>MOVEMENT JOINT</u>			
<u>10mm Expansion joint with closed cell expanded polyethylene foam (or similar approved) with field moulded sealant between surface bed and brick surfaces</u>			
9	Not exceeding 300mm high to edges of surface bed	m	16.59
<u>REINFORCEMENT</u>			
<u>Mild steel reinforcement for structural concrete work</u>			
10	8mm diameter bars	t	0.04
Carried Forward			R
Section No. 8 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
	<u>High tensile reinforcement for structural concrete work</u>			
11	10mm Diameter bars	t	0.09	
	<u>Fabric mesh reinforcement</u>			
12	Type Ref 193 fabric reinforcement in concrete slabs etc.	m2	22.92	
 Carried Forward to Summary of Section No. 8				R
Section No. 8 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No		Quantity	Rate	Amount
	<u>SECTION 8 : SECURITY GUARD HOUSE</u>			
	<u>BILL NO.3 - MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Face bricks</u>			
	Bricks shall be ordered timorously to obtain uniformity in size and colour			
	<u>FOUNDATION BRICKWORK</u>			
	<u>Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227)</u>			
1	Half brick walls	m2	3.31	
2	One brick walls	m2	33.04	
	<u>SUPERSTRUCTURE BRICKWORK</u>			
	<u>Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227)</u>			
3	Half brick walls	m2	5.93	
4	One Brick Walls	m2	35.06	
5	One brick gable Walls	m2	2.89	
6	Half brick wall in beamfilling	m2	1.17	
	<u>BRICKWORK SUNDRIES</u>			
	Carried Forward			R
	Section No. 8 Bill No. 3 MASONRY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>2.5mm Brickwork Reinforcement</u>			
7	75mm Wide built in horizontally	m	50.08
8	150mm Wide built in horizontally	m	272.07
<u>FACE BRICKWORK</u>			
<u>Moroccan red blend travertine or similar approved face bricks pointed with flush horizontal and vertical joints</u>			
9	Extra over brickwork for face brickwork in foundations (provisional)	m2	3.52
10	Extra over brickwork for face brickwork	m2	27.05
<u>Brick-on-edge header coarse copings, sills etc of Moroccan red blend travertine or similar approved face bricks, pointed with recessed joints on all exposed faces</u>			
11	220mm Wide sills set sloping and slightly projected	m	3.00
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Bill No. 3			
MASONRY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
<u>SECTION 8 : SECURITY GUARD HOUSE</u>				
<u>BILL NO.4 - WATERPROOFING</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer 375 micron embossed damp proof course (SABS 9520 Type B)</u>				
1	In walls	m2	9.59	
<u>One layer of 250 micron damp proof course (SABS Specification 9520 Type C) waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape</u>				
2	Under Surface bed	m2	9.47	
Carried Forward to Summary of Section No. 8				R
Section No. 8 Bill No. 4 WATERPROOFING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No	Quantity	Rate	Amount
<u>SECTION 8 : SECURITY GUARD HOUSE</u>			
<u>BILL NO.5 - ROOF COVERING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>IBR ROOF COVERING</u>			
<u>Guarantees</u>			
<u>The contractor will be required to provide a written guarantee for the roof covering as follows:</u>			
IBR roof covering material - 10 years Workmanship - 10 years			
<u>Certificate for Galvanised Roof Sheeting</u>			
The contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied, complies with the required thickness specified			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
<u>IBR PROFILE SHEETING</u>			
<u>IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting @ 17°, fixed to timber purlins</u>			
1	Roof covering with 17 degree pitch and accessories, including ridge capping, gable and gable trims, flashings etc. Concealed fixed to 76x50mm SA pine Timber purlins @ 1200mm c/c (elsewhere measured)	m2	17.54
Carried Forward			R
Section No. 8 Bill No. 5 ROOF COVERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward

R

ROOF AND WALL INSULATION

Sisalation 405 Reflective foil underlay in accordance with SANS 1381-4 overlapped longitudinally by 100mm; on and including galvanised straining wire spaced at 383mm centres fixed parallel over purlins to manufacturer's instruction

2	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrently with roof covering with minimum 150mm stapled laps including galvanised straining wires at not exceeding 400mm centres and one-sided tape at edges where required (Layer 1) (LI)	m2	16.66	
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Carried Forward to Summary of Section No. 8

R

Section No. 8
Bill No. 5
ROOF COVERING
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	Quantity	Rate	Amount
<p><u>SECTION 8 : SECURITY GUARD HOUSE</u></p>			
<p><u>BILL NO.6 - CARPENTRY AND JOINERY</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres and where described as "bolted", the bolts have been given elsewhere</p>			
<p><u>Joinery</u></p>			
<p>Descriptions of frames shall be deemed to include frames, transoms, rails, etc</p>			
<p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
<p>Carried Forward</p>			
<p>Section No. 8 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		R	

Brought Forward

R

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION ETC**

SUPPLEMENTARY PREAMBLES

Trusses are at maximum 1 200mm centres

Roof coverings are IBR-profile 0.58mm thick Z275
spelter galvanised steel roof sheeting on purlins

References given in descriptions refer to the respective
types of trusses detailed on the architect's/engineer's
drawings numbered ? annexed to these bills of
quantities (accompanying these bills of quantities?) for
tender purposes

Dimensions in descriptions of trusses are nominal and
actual measurements are to be obtained from the
architect/engineer and/or taken on site before design or
fabrication commences

Sawn softwood trusses

1	Roof construction to 17 degree double pitched roof with SA Pine Timber trusses at 1000mm c/c as per roofing specialist design and specification complete with 114 x 38mm SA pine timber wall plates, 76 x 50mm SA pine timber purlins, bracing, platform, laminated beams and support for future solar geysers, etc	m2	17.54
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Sundries

2	30x1.6mm Galvanised steel straps built 600mm deep into brickwork	No	10.88
3	Two Coats creosote on sawn timbers	m2	10.97
4	Engineers Certificate		Item

EAVES, VERGES, ETC

Carried Forward

R

Section No. 8
Bill No. 6
CARPENTRY AND JOINERY
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Brought Forward			R
<u>Medium density plain fibre-cement fascia's and barge boards</u>			
5	Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225x12mm, fixed to 76x50mm SAP timber tilter batten and 38x38mm SAP timber support battens between rafters twice screwed with 12x40mm countersunk brass screws at 900mm c/c to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.	m	8.08
<u>SKIRTINGS</u>			
<u>Fine grained compresses woodpulp / cane purpose made</u>			
6	76 x 19 mm Skirtings, nailed	m	16.59
<u>DOORS</u>			
<u>Masonite backing side hung doors</u>			
7	Hardwood door 44 x 813 x 2032mm with masonite backing, hung to steel frame, including Lockblocks and wood screws	No	1.00
8	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including 400x400mm Aluminium Louvre Grill, Lockblocks and wood screws	No	1.00
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Bill No. 6			
CARPENTRY AND JOINERY			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 8 : SECURITY GUARD HOUSE</u>			
<u>BILL NO.7 - CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
<u>Ceilings</u>			
Unless otherwise described ceilings shall be deemed to be horizontal			
<u>NAILED-UP CEILINGS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Openings</u>			
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc			
Carried Forward			R
Section No. 8 Bill No. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>6mm Everite Nutec ceilings</u>			
1	Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, standard size: 1200x3600mm fixed to 38x50mm SAP timber brandering at 600mm c/c using 32x2,5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations	m2	7.79
2	Extra over ceilings 600x600mm trap door opening with 50x38mm SAP braced frame, filled with top hinged metal panel door. (Colour White)	No	1.00
<u>Hardboard cornices</u>			
3	83mm Masonite coved hardboard cornices nailed to battens at max. 300mm c/c all round.	m	16.57
<u>120mm Flexible fibreglass insulation</u>			
4	120mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc	m2	7.79
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Bill No. 7			
CEILINGS, PARTITIONS AND ACCESS FLOORING			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 8 : SECURITY GUARD HOUSE	Quantity	Rate	Amount
	<u>BILL NO.8 - FLOOR COVERINGS, WALL LININGS, ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc			
	<u>FLOOR COVERING</u>			
	<u>300 x 300 x 2mm semi flexible vinyl tiles</u>			
1	On floors	m2	7.81	
	Carried Forward to Summary of Section No. 8			R
	Section No. 8 Bill No. 8 FLOOR COVERINGS, WALL LININGS, ETC Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 8 : SECURITY GUARD HOUSE</u>			
	<u>BILL NO.9 - IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>LOCKS</u>			
	<u>Manufactured by approved supplier</u>			
1	1Pr. Duba One lever handles on plate	No	2.00	
2	Euro profile cylinder SASH Lock - Chrome Plated	No	2.00	
3	66mm Privacy cylinder - Nickle Plated	No	2.00	
	<u>SUNDRIES</u>			
	<u>Manufactured by approved supplier</u>			
4	Floor mounted door stop - Satin Chrome	No	2.00	
	<u>FURNITURE</u>			
	Carried Forward			R
	Section No. 8 Bill No. 9 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward

R

As per Architects Furniture Schedule Rev.00

5	Economy Upholstered Typist Chair - swivel, without arms on 5 star base, blue material	No	1.00
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Carried Forward to Summary of Section No. 8

R

Section No. 8
Bill No. 9
IRONMONGERY
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	SECTION 8 : SECURITY GUARD HOUSE	Quantity	Rate	Amount
	<u>BILL NO.10 - PLUMBING AND DRAINAGE</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>BATHROOM FITTINGS</u>			
	<u>Manufactured by Cobra or similar approved</u>			
1	LECICO NEON Front Flush Closed Couple Toilet Suite without toilet seat (or equal approved) Codes: Cistern: NEOCISFFL0NOMUE Pan: NEOPANFLO0000UE	No	1.00	
2	BUXTON STA-TITE Technoplastic thermoplastic universal toilet seat with chrome-plated hinges with patented fixing system that always stays tight. 100% recyclable. Code: 2850CPT	No	1.00	
3	COBRA screw-down angle regulating valve for flexible tubes chrome plated. Includes 1/2"(15mm) male inlet and 1/2"(15mm) female outlet, and sliding wall flange. (or equal approved) Code: 232-10	No	1.00	
	Carried Forward			
	Section No. 8 Bill No. 10 PLUMBING AND DRAINAGE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		R	

Brought Forward			R
4	COBRA 350mm long; 1/2"(15mm) x 1/2" (15mm) Female to Female Flexible Connector. (or equal approved) Code: C-15/350	No	1.00
5	COBRA "WELCOME" medium wall hung basin. (430 x 390mm) 1 x punched tap hole in centre of basin. Includes wall fixing set. (or equal approved) Code: CWLBAWH2-6DT01	No	1.00
6	COBRA slotted basin waste with plug, chrome plated. Includes: 62mm diameter flange, 77mm long shank and 32mm BSP male outlet connection with polymer backnut. (or equal approved) Code: 303	No	1.00
7	COBRA basin type bottle trap with 75mm deep seal and telescopic waste connection pipe. 1¼ female inletconnection; 1½ male outlet connection. Brass body, chrome plated. (or equal approved) Code: 350/N	No	1.00
8	GROHE EUROECO Cosmopolitan T Self Closing Pillar Tap. Grohe ECOJOY 5.7lt/min flow limiter with 3 adjustable flow times, short, medium and long. Approx 7; 15; 30 second (Pressure dependant) minimum recommended operation pressure 100kPa . (or equal approved) Code: G-36265000	No	1.00
9	FRANKE RODAN towel roll holder (or equal approved) Code: RODX672	No	1.00
10	FRANKE RODAN soap dispenser (or equal approved) Code: RODX619	No	1.00
11	FRANKE STRATOS paper towel dispenser (or equal approved) Code: STRX637	No	1.00
12	FRANKE RODAN waste bin (or equal approved) Code: RODX605	No	1.00
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Bill No. 10			
PLUMBING AND DRAINAGE			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 8 : SECURITY GUARD HOUSE</u>			
<u>BILL NO.11 - METALWORKS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, rails, etc			
Description of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<u>DOORS</u>			
<u>Fire Doors</u>			
Fire doors are to be in accordance with SANS 1253			
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>			
Carried Forward			R
Section No. 8 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward		R
<u>General</u>		
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Description of such units shall, therefore, be deemed to include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or vanish finishes, etc</p> <p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p>		
<u>PRESSED STEEL DOOR FRAMES</u>		
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 220mm wall</u></p>		
1	Frame for door 813 x 2032mm high door	No 1.00
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 110mm wall</u></p>		
2	Frame for door 813 x 2032mm high door	No 1.00
<u>ALUMINIUM WINDOWS AND DOORS</u>		
Carried Forward		R
<p>Section No. 8 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		

Brought Forward			R
3	<p>900x1200mm Window (W01)</p> <p><u>Matt light grey powder coated windows Glazed with GSA SmartGlass - Neutral Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u></p>	No	1.00
4	<p>600x900mm Window (W04)</p> <p><u>Matt light grey powder coated windows Glazed with Obscure glass Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u></p>	No	1.00
5	<p>600x600mm Window (W07)</p>	No	1.00
Carried Forward to Summary of Section No. 8			R
<p>Section No. 8 Bill No. 11 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Item No		Quantity	Rate	Amount
	<u>SECTION 8 : SECURITY GUARD HOUSE</u>			
	<u>BILL NO.12 - PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds wood floated, on concrete</u>			
1	25mm Thick screed on surface bed, incl chipping, cleaning and brushing with Cement/Sand slurry before screeding	m2	7.81	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
2	On walls	m2	46.92	
3	On narrow widths	m2	2.00	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
4	On walls	m2	10.90	
	<u>Cement plaster steel trowelled on concrete</u>			
5	Plaster to roof beam	m2	11.20	
	Carried Forward to Summary of Section No. 8			
	Section No. 8			
	Bill No. 12			
	PLASTERING			
	Tshedimoso Elemental Estimate Rev02			
	Stage 3 - Elemental Estimate			
			R	

Item No	SECTION 8 : SECURITY GUARD HOUSE	Quantity	Rate	Amount
	<u>BILL NO.13 - TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon"?) range of products as recommended by the manufacturer of the tiles			
	<u>WALL TILING</u>			
	<u>152x152x6.5mm/5mm Thick Ceramic tiles fixed with adhesive to plaster and flush pointed with tinted grout on floors</u>			
1	On walls	m	0.28	
	<u>SUNDRIES</u>			
	<u>Anodised aluminium corner protectors, stair nosing, expansion joint strips, etc</u>			
2	10mm Straight edge corner protectors	m	0.92	
3	15mm Straight edge weather strip	m	1.00	
4	T-Piece/Expansion	m	10.00	
	Carried Forward to Summary of Section No. 8			R
	Section No. 8 Bill No. 13 TILING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 8 : SECURITY GUARD HOUSE</u>			
	<u>BILL NO.15 - PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with Architect specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
1	Walls	m2	47.97	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
2	Walls and beams	m2	22.10	
	<u>ON FIBRE-CEMENT SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
3	Fascia and barge boards not exceeding 300mm girth, including priming metal jointing strips	m2	8.77	
	Carried Forward			R
	Section No. 8 Bill No. 15 PAINTWORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
4	Ceilings and cornices	m2	7.79
<u>ON METAL SURFACES</u>			
<u>One coat metal primer and two coats Plascon Velvegro, on steel</u>			
5	Door frames	m2	1.89
<u>ON WOOD SURFACES</u>			
<u>One coat primer and two coats premium quality polyurethane enamel paint</u>			
6	External door	m2	3.31
<u>Three coats superior quality clear matt varnish</u>			
7	Internal Door	m2	3.31
Carried Forward to Summary of Section No. 8			R
Section No. 8			
Bill No. 15			
PAINTWORK			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

SECTION SUMMARY - SECTION 8 : SECURITY GUARD HOUSE

Bill No		Page No	Amount
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Carried to Final Summary			
Section No. 8 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			R

Item No	SECTION 9 : PUMP ROOM	Quantity	Rate	Amount
	<u>BILL NO.1 - EARTHWORKS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Nature of ground			
	The tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" 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 truck directly from the excavation or alternatively, from stock piles situated on the building site			
	Excavation			
	No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. " Soft rock" and "hard rock" shall be as defined in "Earthworks"			
	Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill			
	<u>EXCAVATIONS</u>			
	<u>Excavations in earth not exceeding 2m deep</u>			
1	Foundations	m3	9.44	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	6.70	
	Carried Forward			R
	Section No. 9 Bill No. 1 EARTHWORKS (PROVISIONAL) Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Keeping excavations free of water</u>		
3	Keeping excavations free of water other than subterranean water (Proven Method and Expenditure)	Item	
	<u>FILLING</u>		
	Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 100mm layers to 93% Mod AASHTO density		
4	Backfilling to strip footings, bases etc	m3	1.92
	<u>Compaction of surfaces</u>		
5	To loosen excavated surface and re-compact ground surface under strip footings and surface bed etc. by wetting and compacting to 93% Mod AASTHO	m2	11.80
	<u>Prescribed density tests on filling</u>		
6	"Modified AASTHO Density" test	No	1.00
	<u>SOIL POISONING</u>		
	Soil insecticide in accordance with Architects Specifications		
7	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	17.52
8	To bottoms and sides of trenches etc	m2	38.78
Carried Forward to Summary of Section No. 9			R
Section No. 9			
Bill No. 1			
EARTHWORKS (PROVISIONAL)			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 9 : PUMP ROOM	Quantity	Rate	Amount
	<u>BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of test</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings and Column Bases	m3	2.71	
2	Surface beds on waterproofing	m3	3.89	
3	Apron	m3	1.84	
	Carried Forward			R
	Section No. 9 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>TEST CUBES</u>			
4	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	1.00
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top of surface bed smooth with a power float</u>			
5	Surface beds, slabs, etc	m2	15.72
<u>Finishing top of surface bed smooth with a wood float</u>			
6	Apron	m2	18.41
<u>MOVEMENT JOINT</u>			
<u>10mm Expansion joint with closed cell expanded polyethylene foam (or similar approved) with field moulded sealant between surface bed and brick surfaces</u>			
7	Not exceeding 300mm high to edges of surface bed	m	7.90
<u>REINFORCEMENT</u>			
<u>Mild steel reinforcement for structural concrete work</u>			
8	8mm diameter bars	t	0.04
<u>High tensile reinforcement for structural concrete work</u>			
9	10mm Diameter bars	t	0.11
10	12mm Diameter bars	t	0.20
Carried Forward			R
Section No. 9 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 9 : PUMP ROOM</u>			
	<u>BILL NO.3 - MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Face bricks</u>			
	Bricks shall be ordered timorously to obtain uniformity in size and colour			
	<u>FOUNDATION BRICKWORK</u>			
	<u>Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227)</u>			
1	One Brick Walls	m2	17.20	
	<u>SUPERSTRUCTURE BRICKWORK</u>			
	<u>Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227)</u>			
2	One Brick Walls	m2	50.58	
3	Half brick wall in beamfilling	m2	1.02	
	<u>BRICKWORK SUNDRIES</u>			
	<u>2.5mm Brickwork Reinforcement</u>			
4	150mm Wide built in horizontally	m	228.00	
	Carried Forward to Summary of Section No. 9			R
	Section No. 9 Bill No. 3 MASONRY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 9 : PUMP ROOM	Quantity	Rate	Amount
	<u>BILL NO.4 - WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375 micron embossed damp proof course (SABS 9520 Type B)</u>			
1	In walls	m2	19.24	
	<u>One layer of 250 micron damp proof course (SABS Specification 9520 Type C) waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape</u>			
2	Under Surface bed	m2	17.86	
	Carried Forward to Summary of Section No. 9			R
	Section No. 9 Bill No. 4 WATERPROOFING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 9 : PUMP ROOM</u>			
<u>BILL NO.5 - ROOF COVERING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>IBR ROOF COVERING</u>			
<u>Guarantees</u>			
<u>The contractor will be required to provide a written guarantee for the roof covering as follows:</u>			
IBR roof covering material - 10 years Workmanship - 10 years			
<u>Certificate for Galvanised Roof Sheeting</u>			
The contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied, complies with the required thickness specified			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
<u>IBR PROFILE SHEETING</u>			
<u>IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting @ 17°, fixed to timber purlins</u>			
1	Roof covering with 17 degree pitch and accessories, including ridge capping, gable and gable trims, flashings etc. Concealed fixed to 76x50mm SA pine Timber purlins @ 1200mm c/c (elsewhere measured)	m2	25.11
Carried Forward			R
Section No. 9 Bill No. 5 ROOF COVERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward

R

ROOF AND WALL INSULATION

Sisalation 405 Reflective foil underlay in accordance with SANS 1381-4 overlapped longitudinally by 100mm; on and including galvanised straining wire spaced at 383mm centres fixed parallel over purlins to manufacturer's instruction

2	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrently with roof covering with minimum 150mm stapled laps including galvanised straining wires at not exceeding 400mm centres and one-sided tape at edges where required (Layer 1) (LI)	m2	23.85
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Carried Forward to Summary of Section No. 9

R

Section No. 9
Bill No. 5
ROOF COVERING
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	Quantity	Rate	Amount
<u>SECTION 9 : PUMP ROOM</u>			
<u>BILL NO.6 - CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres and where described as "bolted", the bolts have been given elsewhere			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, rails, etc			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
Carried Forward			R
Section No. 9 Bill No. 6 CARPENTRY AND JOINERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward

R

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION ETC**

SUPPLEMENTARY PREAMBLES

Trusses are at maximum 1 200mm centres

Roof coverings are IBR-profile 0.58mm thick Z275
spelter galvanised steel roof sheeting on purlins

References given in descriptions refer to the respective
types of trusses detailed on the architect's/engineer's
drawings numbered ? annexed to these bills of
quantities (accompanying these bills of quantities?) for
tender purposes

Dimensions in descriptions of trusses are nominal and
actual measurements are to be obtained from the
architect/engineer and/or taken on site before design or
fabrication commences

Sawn softwood trusses

1	Roof construction to 17 degree double pitched roof with SA Pine Timber trusses at 1000mm c/c as per roofing specialist design and specification complete with 114 x 38mm SA pine timber wall plates, 76 x 50mm SA pine timber purlins, bracing, platform, laminated beams and support for future solar geysers, etc	m2	25.11
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Sundries

2	30x1.6mm Galvanised steel straps built 600mm deep into brickwork	No	12.00
3	Two Coats creosote on sawn timbers	m2	9.96
4	Engineers Certificate		Item

EAVES, VERGES, ETC

Carried Forward

R

Section No. 9
Bill No. 6
CARPENTRY AND JOINERY
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

Item No	Quantity	Rate	Amount
<u>SECTION 9 : PUMP ROOM</u>			
<u>BILL NO.7 - CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
<u>Ceilings</u>			
Unless otherwise described ceilings shall be deemed to be horizontal			
<u>NAILED-UP CEILINGS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Openings</u>			
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc			
Carried Forward			R
Section No. 9 Bill No. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>6mm Everite Nutec ceilings</u>			
1	Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, standard size: 1200x3600mm fixed to 38x50mm SAP timber brandering at 600mm c/c using 32x2,5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations	m2	16.23
2	Extra over ceilings 600x600mm trap door opening with 50x38mm SAP braced frame, filled with top hinged metal panel door. (Colour White)	No	1.00
<u>Hardboard cornices</u>			
3	83mm Masonite coved hardboard cornices nailed to battens at max. 300mm c/c all round.	m	16.26
<u>120mm Flexible fibreglass insulation</u>			
4	120mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc	m2	16.23
Carried Forward to Summary of Section No. 9			R
Section No. 9			
Bill No. 7			
CEILINGS, PARTITIONS AND ACCESS FLOORING			
Tshedimoso Elemental Estimate Rev02			
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Item No	SECTION 9 : PUMP ROOM	Quantity	Rate	Amount
	<u>BILL NO.8 - IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<u>LOCKS</u>			
	<u>Manufactured by approved supplier</u>			
1	1Pr. Duba One lever handles on plate	No	1.00	
2	Euro profile cylinder SASH Lock - Chrome Plated	No	1.00	
	Carried Forward to Summary of Section No. 9		R	
	Section No. 9 Bill No. 8 IRONMONGERY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 9 : PUMP ROOM</u>			
<u>BILL NO.9 - METALWORKS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, rails, etc			
Description of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<u>DOORS</u>			
<u>Fire Doors</u>			
Fire doors are to be in accordance with SANS 1253			
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>			
Carried Forward			R
Section No. 9 Bill No. 9 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward		R
<u>General</u>		
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Description of such units shall, therefore, be deemed to include all components, assembling, housing, notching, gluing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or vanish finishes, etc</p> <p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p>		
<u>PRESSED STEEL DOOR FRAMES</u>		
<p><u>1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 220mm wall</u></p>		
1	Frame for door 813 x 2032mm high door	No 1.00
<u>Steel Combination Louvre Double Door</u>		
2	Steel Combination Louvre Double Door size 1525x2440x230mm	No 1.00
<u>ALUMINIUM WINDOWS AND DOORS</u>		
<p><u>Matt light grey powder coated windows Glazed with GSA SmartGlass - Neutral Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery: Supplied by window Manufacturer, all to Architects approval</u> <u>Burglar Proofing to be provided all to Architects approval.</u></p>		
3	900x1200mm Window (W01)	No 1.00
Carried Forward to Summary of Section No. 9		R
<p>Section No. 9 Bill No. 9 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>		

Item No		Quantity	Rate	Amount
	<u>SECTION 9 : PUMP ROOM</u>			
	<u>BILL NO.10 - PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds wood floated, on concrete</u>			
1	25mm Thick screed on surface bed, incl chipping, cleaning and brushing with Cement/Sand slurry before screeding	m2	7.81	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
2	On walls	m2	46.92	
3	On narrow widths	m2	2.00	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork</u>			
4	On walls	m2	10.90	
	Carried Forward to Summary of Section No. 9			R
	Section No. 9 Bill No. 10 PLASTERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 9 : PUMP ROOM	Quantity	Rate	Amount
	<u>BILL NO.11 - PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with Architect specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
1	Walls	m2	47.97	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use</u>			
2	Walls and beams	m2	22.10	
	<u>ON FIBRE-CEMENT SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
3	Fascia and barge boards not exceeding 300mm girth, including priming metal jointing strips	m2	8.77	
	Carried Forward			
	Section No. 9 Bill No. 11 PAINTWORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		R	

Brought Forward			R
4	Ceilings and cornices	m2	7.79
<u>ON METAL SURFACES</u>			
<u>One coat metal primer and two coats Plascon Velvegro, on steel</u>			
5	Door frames	m2	6.00
<u>ON WOOD SURFACES</u>			
<u>One coat primer and two coats premium quality polyurethane enamel paint</u>			
6	External door	m2	3.31
Carried Forward to Summary of Section No. 9			R
Section No. 9			
Bill No. 11			
PAINTWORK			
Tshedimoso Elemental Estimate Rev02			
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SECTION SUMMARY - SECTION 9 : PUMP ROOM

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11	PAINTWORK	217	
Carried to Final Summary			R
Section No. 9 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 10 : COVERED WALKWAYS</u>			
<u>BILL NO.1 - EARTHWORKS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Nature of ground			
The tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" 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 truck directly from the excavation or alternatively, from stock piles situated on the building site			
Excavation			
No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. " Soft rock" and "hard rock" shall be as defined in "Earthworks"			
Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill			
<u>EXCAVATIONS</u>			
<u>Excavations in earth not exceeding 2m deep</u>			
1	Foundations	m3 118.18	
<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3 57.07	
Carried Forward			R
Section No. 10 Bill No. 1 EARTHWORKS (PROVISIONAL) Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Keeping excavations free of water</u>		
3	Keeping excavations free of water other than subterranean water (Proven Method and Expenditure)	Item	
	<u>FILLING</u>		
	Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 100mm layers to 93% Mod AASHTO density		
4	Backfilling to strip footings, bases etc	m3	61.11
	<u>Earth filling obtained from commercial sources</u>		
5	Selected (G5) layers constructed to 150 mm thickness compact to 95% of mod. AASHTO maximum density	m3	31.19
	<u>Compaction of surfaces</u>		
6	To loosen excavated surface and re-compact ground surface under strip footings and surface bed etc. by wetting and compacting to 93% Mod AASTHO	m2	332.92
	<u>Prescribed density tests on filling</u>		
7	"Modified AASTHO Density" test	No	5.00
	<u>SOIL POISONING</u>		
	Soil insecticide in accordance with Architects Specifications		
8	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	205.84
9	To bottoms and sides of trenches etc	m2	461.28
Carried Forward to Summary of Section No. 10			R
Section No. 10			
Bill No. 1			
EARTHWORKS (PROVISIONAL)			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 10 : COVERED WALKWAYS	Quantity	Rate	Amount
	<u>BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of test</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings and Column Bases	m3	29.71	
2	Surface beds on waterproofing	m3	22.00	
	Carried Forward			R
	Section No. 10 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>TEST CUBES</u>			
3	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	2.00
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top of surface bed smooth with a wood float</u>			
4	Walkway	m2	13.30
<u>MOVEMENT JOINT</u>			
<u>10mm Expansion joint with closed cell expanded polyethylene foam (or similar approved) with field moulded sealant between surface bed and brick surfaces</u>			
5	Not exceeding 300mm high to edges of surface bed	m	13.30
<u>10mm Construction joint between vertical concrete surfaces, debonded with Lime Wash or Bitumen, groove and sealant saw cut filled with Polysulphide sealant Durakol 25 or Similar approved with Polyethylene bond breaker backing tape</u>			
6	Surface beds and Apron not exceeding 300mm thick	m	68.61
<u>REINFORCEMENT</u>			
<u>Mild steel reinforcement for structural concrete work</u>			
7	8mm diameter bars	t	0.34
<u>High tensile reinforcement for structural concrete work</u>			
8	10mm Diameter bars	t	1.13
Carried Forward			R
Section No. 10 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

	Brought Forward			R
9	12mm Diameter bars	t	0.04	
	<u>Fabric mesh reinforcement</u>			
10	Type Ref 193 fabric reinforcement in concrete slabs etc.	m2	205.84	

Carried Forward to Summary of Section No. 10

Section No. 10
 Bill No. 2
 CONCRETE, FORMWORK AND REINFORCEMENT
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

R

Item No		Quantity	Rate	Amount
	<u>SECTION 10 : COVERED WALKWAYS</u>			
	<u>BILL NO.3 - MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Face bricks</u>			
	Bricks shall be ordered timorously to obtain uniformity in size and colour			
	<u>FOUNDATION BRICKWORK</u>			
	<u>Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227)</u>			
1	One Brick Walls	m2	147.61	
	<u>BRICKWORK SUNDRIES</u>			
	<u>2.5mm Brickwork Reinforcement</u>			
2	150mm Wide built in horizontally	m	1 024.00	
	<u>FACE BRICKWORK</u>			
	<u>Moroccan red blend travertine or similar approved face bricks pointed with flush horizontal and vertical joints</u>			
3	Extra over brickwork for face brickwork in foundations (provisional)	m2	47.05	
	Carried Forward			R
	Section No. 10 Bill No. 3 MASONRY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward			R
		<u>Brick-on-edge header coarse copings, sills etc of Moroccan red blend travertine or similar approved face bricks, pointed with recessed joints on all exposed faces</u>			
4	220mm Wide sills set sloping and slightly projected	m	184.51		
Carried Forward to Summary of Section No. 10					
Section No. 10 Bill No. 3 MASONRY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate					R

Item No	SECTION 10 : COVERED WALKWAYS	Quantity	Rate	Amount
	<p><u>BILL NO.4 - WATERPROOFING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 250 micron damp proof course (SABS Specification 9520 Type C) waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape</u></p>			
1	Under Surface bed	m2	205.84	
	Carried Forward to Summary of Section No. 10			R
	Section No. 10 Bill No. 4 WATERPROOFING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	Quantity	Rate	Amount
<u>SECTION 10 : COVERED WALKWAYS</u>			
<u>BILL NO.5 - ROOF COVERING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>IBR ROOF COVERING</u>			
<u>Guarantees</u>			
<u>The contractor will be required to provide a written guarantee for the roof covering as follows:</u>			
IBR roof covering material - 10 years Workmanship - 10 years			
<u>Certificate for Galvanised Roof Sheeting</u>			
The contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied, complies with the required thickness specified			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
<u>IBR PROFILE SHEETING</u>			
<u>IBR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting @ 17°, fixed to timber purlins</u>			
1	Roof covering with 17 degree pitch and accessories, including ridge capping, gable and gable trims, flashings etc. Concealed fixed to 76x50mm SA pine Timber purlins @ 1200mm c/c (elsewhere measured)	m2	287.81
Carried Forward to Summary of Section No. 10			R
Section No. 10 Bill No. 5 ROOF COVERING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
<u>SECTION 10 : COVERED WALKWAYS</u>				
<u>BILL NO.6 - METALWORKS</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>76x76x3mm Thick square hollow mild steel framework with rounded corners with brackets for 76x38x2mm thick rectangular hollow mild steel purlins.</u>				
1	2400(h)x1980(w) fixed to the walkway as per engineers detail	No	102.00	
2	60x40x2mm Thick rectangular hollow mild steel perlin bolted to brakets on framework	No	278.52	
Carried Forward to Summary of Section No. 10				R
Section No. 10 Bill No. 6 METALWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No	SECTION 10 : COVERED WALKWAYS	Quantity	Rate	Amount
	<p><u>BILL NO.7 - PAINTWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PAINT SPECIFICATIONS</u></p> <p>All painting shall be done in accordance with Architect specifications unless otherwise described</p> <p><u>COLOURS</u></p> <p>Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091</p> <p><u>ON METAL SURFACES</u></p> <p><u>One coat metal primer and two coats Plascon Velvegro, on steel</u></p>			
1	Covered walkways	m2	130.80	
	Carried Forward to Summary of Section No. 10			R
	<p>Section No. 10 Bill No. 7 PAINTWORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

SECTION SUMMARY - SECTION 10 : COVERED WALKWAYS

Bill No		Page No	Amount
1	EARTHWORKS (PROVISIONAL)	220	
2	CONCRETE, FORMWORK AND REINFORCEMENT	223	
3	MASONRY	225	
4	WATERPROOFING	226	
5	ROOF COVERING	227	
6	METALWORKS	228	
7	PAINTWORK	229	
Carried to Final Summary			R
Section No. 10 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 12 : EXTERNAL WORKS</u>			
	<u>BILL NO.1 - LANDSCAPING</u>			
	<u>Grassing</u>			
	<u>Grassing of rolls approximately 50mm thick including fertilising grassed areas after completion of planting</u>			
1	"Kikuyu" grass over site	m2	1 034.24	
	<u>Trees</u>			
2	Feature trees 50lt, Type 1 as per Architects Specifications	No	10.00	
	<u>Vegatable Garden</u>			
3	Vegatable Garden Complete	No	1.00	
	<u>Fencing</u>			
4	Making good existing fence	m	800.00	
5	New Fence to Grade R Play Area	m	50.00	
6	Gate 01	No	1.00	
	<u>Sports Fields</u>			
7	Combi Court		Item	
	<u>Playground and Jungle Gyms</u>			
8	CONCRETE SLAB: 3000mm x 5000mm cast on site as per specialist specification or detailed drawings. (Or equal approved). Games to be painted in suitable water resistant and hardwearing product (colours and designs to be specified later) and concrete to be sealed with a high-quality matte, clear concrete sealant as per specialist specification. (Or equal approved)		Item	
	Carried Forward			R
	Section No. 11 Bill No. 1 EXTERNAL WORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward		R
9	SAND PIT: Add-ons range sand pit from Playgroundworld. Timber to be treated and sufficient drainage ground sheet to be used. Installation as per specialist specification and detailed drawings. (Or equal approved).	Item
10	BALANCING BRIDGE: 4500mm x 900mm x 1200mm steel balancing bridge from Planet Jungle Gym. Steel to be galvanised and painted (colour to be specified later) and installed as per specialist specification and detailed drawings. (Or equal approved).	No 1.00
11	4-SEATER ROUNDABOUT: 1500mm x 1500mm steel 4-seater roundabout from Planet Jungle Gym. Steel to be galvanised and painted (colour to be specified later) and installed as per specialist specification and details drawings. (Or equal approved).	No 1.00
12	TUNNEL CLIMB DRUM: 1500mm x 900mm x 1000mm steel tunnel climb drum from Planet Jungle Gym. Steel to be galvanised and painted (colour to be specified later) and installed as per specialist specification and details drawings. (Or equal approved).	No 4.00
13	2-SEATER ROCKER: 1800mm x 600mm x 750mm steel 2-seater rocker from Planet Jungle Gym. Steel to be galvanised and painted (colour to be specified later) and installed as per specialist specification and details drawings. (Or equal approved).	No 1.00
14	SWING: 4500mm x 2400mm x 3000mm steel frame triple swing from Planet Jungle Gym. Steel to be galvanised and painted (colour to be specified later) and installed as per specialist specification and details drawings. (Or equal approved).	No 1.00
Carried Forward		R
Section No. 11 Bill No. 1 EXTERNAL WORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward			R
15	JUNGLE GYM: 2200mm x 1800mm x 2500mm combination gym cube from Planet Jungle Gym called Mercury. 2400mm Slide to be added. Steel to be galvanised and painted (colour to be specified later) and installed as per specialist specification and details drawings. (Or equal approved).	No	1.00
16	HOPSCOTCH LAYOUT: Standard 450mm x 450mm x 50mm concrete paver slabs laid out for the game of hopscotch. Finish: Smooth. Colour: Charcoal. Numbers to be painted in a suitable water-resistant and hardwearing product (colours to be specified later) and pavers to be sealed with a high quality matte, clear paver sealant as per specialist specification. (Or equal approved).		Item
17	LITTER BIN: 90lt small raintop pavement litter bin from SA Bins. 470mm x 470mm x 675mm (colour to be specified later). (Or equal approved)	No	3.00
18	DRINKING FOUNTAIN: 500mm x 740mm standard drinking fountain from SA Bins. Fibreglass basin and stainless steel tap. 110mm diameter hole for water supply connection. Installed as per specialist specification and details drawings. (Or equal approved).	No	5.00
19	LITTER BIN: 218lt large raintop pavement litter bin from SA Bins. 493mm x 493mm x 934mm (colour to be specified later). (Or equal approved)	No	2.00
20	MERRY-GO-ROUND: 2500mm x 2500mm x 1000mm heavy duty merry-go-round from Planet Jungle Gym. Steel to be galvanised and painted (colour to be specified later) and installed as per specialist specification and detailed drawings. (Or equal approved).	No	1.00
Carried Forward			R
Section No. 11 Bill No. 1 EXTERNAL WORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward		R
21	MONKEY BARS: 2000mm x 1000mm x 1800mm steel Super Monkey Bars from Planet Jungle Gym. Steel to be galvanised and painted (colour to be specified later) and installed as per specialist specification and detailed drawings. (Or equal approved).	No	1.00	
22	SEATING: 1200MM x 400mm x 420mm standard concrete bench from Bosun. Finish: Standard. Installed as per specialist specification and detailed drawings. (Or equal approved).	No	14.00	
23	PATHWAY: Onyx Piazza Paver 220mm x 52mm x 50mm laid in accordance to manufactures specification and detail drawings. (Or equal approved).	m2	78	
Carried to Final Summary				R
Section No. 11 Bill No. 1 EXTERNAL WORK Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No			Quantity	Rate	Amount
	<u>SECTION 13 : DECANTING & DEMOLISHING</u>				
	<u>BILL NO.1 - DECANTING & DEMOLISHING</u>				
	<u>DECANTING</u>				
	<u>Temporary Structures</u>				
1	Montly Rental of x2 (3m x 6m) Ablution Blocks (Male & Female)	Month	10.00		
2	Establishment Costs	No	1.00		
3	De-establishment Costs	No	1.00		
4	Monthly Rental of x1 (3m x 6m) Open Plan Kitchen	Month	10.00		
5	Establishment Costs	No	1.00		
6	De-establishment Costs	No	1.00		
7	Temporary Hoarding	m	256.00		
	<u>Demolition</u>				
8	Demolition of existing kitchen	m2	173.40		
9	Demolition of all existing concrete slabs, existing water tank, water fountain, existing play area			Item	
10	Demolition of existing steel carport			Item	
	Carried to Final Summary				
	Section No. 12 Bill No. 1 DECANTING & DEMOLITION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				R

Item No		Quantity	Rate	Amount
	<u>SECTION 14 : ELEVATED TANK BASES</u>			
	<u>BILL NO.1 - EARTHWORKS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Nature of ground			
	The tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" 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 truck directly from the excavation or alternatively, from stock piles situated on the building site			
	Excavation			
	No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. " Soft rock" and "hard rock" shall be as defined in "Earthworks"			
	Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill			
	<u>EXCAVATIONS</u>			
	<u>Excavations in earth not exceeding 2m deep</u>			
1	Foundations	m3	49.97	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	21.97	
	Carried Forward			R
	Section No. 13 Bill No. 1 EARTHWORKS (PROVISIONAL) Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Keeping excavations free of water</u>		
3	Keeping excavations free of water other than subterranean water (Proven Method and Expenditure)	Item	
	<u>FILLING</u>		
	Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 100mm layers to 93% Mod AASHTO density		
4	Backfilling to strip footings, bases etc	m3	28.00
	<u>Earth filling obtained from commercial sources</u>		
5	Selected (G5) layers constructed to 150 mm thickness compact to 95% of mod. AASHTO maximum density	m3	11.53
	<u>Compaction of surfaces</u>		
6	To loosen excavated surface and re-compact ground surface under strip footings and surface bed etc. by wetting and compacting to 93% Mod AASTHO	m2	38.44
	<u>Prescribed density tests on filling</u>		
7	"Modified AASTHO Density" test	No	8.00
	<u>SOIL POISONING</u>		
	Soil insecticide in accordance with Architects Specifications		
8	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	38.44
9	To bottoms and sides of trenches etc	m2	16.12
Carried Forward to Summary of Section No. 13			R
Section No. 13			
Bill No. 1			
EARTHWORKS (PROVISIONAL)			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 14 : ELEVATED TANK BASES	Quantity	Rate	Amount
	<u>BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of test</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings and Column Bases	m3	16.05	
	Carried Forward			R
	Section No. 13 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward		R
<u>TEST CUBES</u>				
2	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	2.00	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top of surface bed smooth with a wood float</u>				
3	Columns	m2	1.75	
<u>REINFORCEMENT</u>				
<u>Mild steel reinforcement for structural concrete work</u>				
4	8mm diameter bars	t	0.10	
<u>High tensile reinforcement for structural concrete work</u>				
5	12mm Diameter bars	t	1.36	
Carried Forward to Summary of Section No. 13				R
Section No. 13				
Bill No. 2				
CONCRETE, FORMWORK AND REINFORCEMENT				
Tshedimoso Elemental Estimate Rev02				
Stage 3 - Elemental Estimate				

SECTION SUMMARY - SECTION 14 : ELEVATED TANK BASES

**Bill
No**

- 1 EARTHWORKS (PROVISIONAL)
- 2 CONCRETE, FORMWORK AND REINFORCEMENT

**Page
No**

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Amount

Carried to Final Summary

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Section No. 13
Tshedimoso Elemental Estimate Rev02
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Item No		Quantity	Rate	Amount
<u>SECTION 15 : CIVIL ENGINEERING (WATER & SEWER)</u>				
<u>BILL NO.1 - SITE CLEARANCE</u>				
<u>SEWER NETWORK</u>				
1	Clear and grub of site and remove all obstructions on pipeline route up to 2.5m wide	m	300.00	
	<u>Remove and grub large trees and stumps</u>			
2	a) Girth over 600mm up to 1000mm (provisional)	No	3.00	
3	b) Girth over 1000mm up to 2000mm (provisional)	No		Rate Only
4	c) Girth over 2000mm up to 3000mm (provisional)	No		Rate Only
<u>WATER RETICULATION</u>				
5	Clear and grub of site and remove all obstructions on pipeline route up to 2.5m wide	m	420.00	
	<u>Remove and grub large trees and stumps</u>			
6	a) Girth over 600mm up to 1000mm (provisional)	No	3.00	
7	b) Girth over 1000mm up to 2000mm (provisional)	No		Rate Only
8	c) Girth over 2000mm up to 3000mm (provisional)	No		Rate Only
Carried Forward to Summary of Section No. 14				
Section No. 14				
Bill No. 1				
SITE CLEARANCE				
Tshedimoso Elemental Estimate Rev02				
Stage 3 - Elemental Estimate				
			R	

Item No		Quantity	Rate	Amount
	<u>SECTION 15 : CIVIL ENGINEERING (WATER & SEWER)</u>			
	<u>BILL NO.2 - WATER NETWORK & SUPPLY</u>			
	<u>EXCAVATION</u>			
1	Excavate in all materials for valve boxes, backfill & compact and dispose of surplus or unsuitable material.	m3	30.00	
	<u>Excavate in all materials for trenches, backfill, compact and dispose of surplus or unsuitable material for water pipes to a depth not exceeding 1.5 m</u>			
2	For 63mm uPVC CL9 diameter pipes 700mm wide	m	340.00	
3	For 110mm uPVC CL9 diameter pipes 1000mm wide	m	70.00	
4	For 160mm uPVC CL9 diameter pipes 1000mm wide	m	10.00	
5	For 25mm and 20mm diameter HDPE PN9 pipes 300mm wide	m	50.00	
6	Extra over item for hard rock excavation	m3	10.00	
	<u>PROVISION OF BEDDING</u>			
7	Selected granular bedding material from site excavation max size > 6.0 mm	m3	460.00	
8	Selected fill material from site excavation, max size >6 mm	m3	460.00	
	<u>Imported from commercial sources (provisional) - graded G7</u>			
9	Import filling material to make up short fall due to rock excavation and spoil	m	100.00	
	<u>MEDIUM PRESSURE PIPELINES</u>			
	Carried Forward			R
	Section No. 14 Bill No. 2 WATER NETWORK & SUPPLY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
	<u>Supply, handle, lay and bed uPVC Class 9, test and disinfect.</u>			
10	63mm uPVC CL9 dia	m	340.00	
11	110mm uPVC CL9 dia	m	70.00	
12	160mm uPVC CL9 dia	m	10.00	
	<u>Supply, handle, lay and bed HDPE pipes with couplings complete for house connections, test and disinfect</u>			
13	20 mm dia	m	25.00	
14	25 mm dia	m	25.00	
	<u>Water Point construction with all fittings per engineers details</u>			
15	Provisional allowance		Item	
	<u>SPECIALS AND FITTINGS FOR uPVC CL 9 PIPES</u>			
	<u>Extra-over Item 3.3 for the supply, lay and bed fittings.</u>			
	<u>Bends : uPVC</u>			
16	11,25" 63mm dia uPVC CL9	No	2.00	
17	22,5" 63mm dia uPVC CL9	No	2.00	
18	45" 63mm dia uPVC CL9	No	2.00	
19	90" 63mm dia uPVC CL9	No	8.00	
20	90" 110mm dia uPVC CL9	No	2.00	
	<u>uPVC Tees</u>			
21	63mm dia uPVC CL9	No	5.00	
22	110mm dia uPVC CL9	No	2.00	
	Carried Forward			R
	Section No. 14 Bill No. 2 WATER NETWORK & SUPPLY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
23	160mm dia uPVC CL9	No	1.00	
	<u>Stub End with SANS 1123/3 flange class 9 (backing ring supplier) at valves</u>			
24	63mm dia	No	16.00	
25	110mm dia	No	10.00	
	<u>VALVES (AVK or similar approved)</u>			
	<u>Supply & install resilient seal gate valves, non rising spindle, cap top, LH closing to SANS 665, flanged to SANS 1123/3 table 16</u>			
26	63mm dia	No	8.00	
27	110mm dia	No	5.00	
	<u>Denso wrapping at valves</u>			
28	63mm and 110mm dia valve	No	26.00	
29	Supply and install 750 Ø MH valve boxes for 63mm to 100mm dia valves	No	13.00	
	<u>uPVC Reducers CL9</u>			
30	110mm to 63mm diameter	No	4.00	
31	160mm to 110mm diameter	No	2.00	
32	M20/19 concrete anchor blocks for water pipes including all shuttering excavation, etc as shown on drawings	m3	40	
	<u>CONNECTIONS</u>			
	<u>Supply and install saddles for erf connections</u>			
	<u>Saddles to fit the following pipes:</u>			
33	63mm diameter	No	15.00	
34	20mm and 25mm diameter HDPE connection pipes	m	50.00	
	Carried Forward			R
	Section No. 14 Bill No. 2 WATER NETWORK & SUPPLY Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
35	Supply and installation of domestic watermeter.	Item	5 000.00
36	Borehole Refurbishment	Item	20 000.00
37	Storage Steel Water Tanker	Item	350 000.00
38	Borehole Testing	Item	45 000.00
39	Supply and Install KSB MOVITEC VF2/03 B or similar approved complete with all fittings.	Item	66 000.00

Carried Forward to Summary of Section No. 14

Section No. 14
 Bill No. 2
 WATER NETWORK & SUPPLY
Tshedimoso Elemental Estimate Rev02
Stage 3 - Elemental Estimate

R

Item No		Quantity	Rate	Amount
<u>SECTION 15 : CIVIL ENGINEERING (WATER & SEWER)</u>				
<u>EARTHWORKS</u>				
1	Excavate in all materials for manholes	m3	200.00	
<u>EARTHWORKS PIPE TRENCHES</u>				
<u>Excavate in all materials for trenches up to 1m wide, backfill, compact and dispose of surplus or unsuitable material for 110mm diameter pipes over and up to:</u>				
2	0.0m to 1.5m	m	140.00	
3	>1,5m to 2.0m	m	110.00	
4	>2m to 3.5m	m	50.00	
5	Extra over item for hard rock excavation	m3	50.00	
<u>PROVISIONAL FOR BEDDING</u>				
6	Selected granular bedding material from site excavation max size >6.0mm	m3	110.00	
7	Selected fill material from site excavation, max size >10mm	m3	110.00	
8	Import filling material to make up short fall due rock excavation and spoil	m3	50.00	
<u>SEWERS (PIPEWORK)</u>				
<u>Supply, lay and test uPVC Class 34 Heavy Duty pipe in 6m lengths, excluding couplings</u>				
9	110mm diameter	m	300.00	
<u>MANHOLES</u>				
Carried Forward				R
Section No. 14 Bill No. 3 SEWER RETICULATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward				R
<u>Supply factory manufactured concrete manholes with Polyester Resin frame and covers to SANS 50124, with floor and benching for the following diameters and depths:</u>				
<u>1250mm diameter two legged manhole</u>				
10	0.0m to 1.5m	No	4	
11	>1,5m to 2.0m	No	4	
12	>2m to 3.5m	No	3	
<u>1250mm diameter three legged manhole</u>				
13	0.0m to 1.5m	No	4	
14	>1,5m to 2.0m	No		Rate only
15	Rodding eye complete with concrete collar and lid	No	9	
16	G5 cement stabilized layer under MH foundation	m3	10.00	
17	Cement of stabilizing	t	0.50	
18	25/6.7 Mpa concrete in bottom of MH - MH to be turned upside down and concrete poured	m3	10.00	
19	Y10 high tensile steel bars in manhole bottom	t	1.00	
<u>CONNECTIONS</u>				
<u>Construct Type 1 connections complete as detailed and specified on drawings connecting to main sewer for depths not exceeding 1.5m on the following pipes:</u>				
20	Direct in MH	No	5	
21	From 110mm diameter uPVC Heavy Duty Class 34	No	10	
Carried Forward				R
Section No. 14 Bill No. 3 SEWER RETICULATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
<u>Construct Type 2 connections complete as detailed and specified on drawings connecting to main sewer for depths not exceeding 2.5m on the following pipes:</u>			
22	Direct in MH	No	Rate only
23	From 110mm diameter uPVC Heavy Duty Class 34	No	Rate only
<u>Construct Type 3 connections complete as detailed and specified on drawings connecting to main sewer for depths not exceeding 5.0m on the following pipes:</u>			
24	Direct in MH	No	Rate only
25	From 110mm diameter uPVC Heavy Duty Class 34	No	Rate only
<u>Testing</u>			
26	Make provision for testing water tightness of manholes including all work and materials as specified only where instructed by the Engineer	No	15
<u>HDPE Y-piece at connections</u>			
27	110mm diameter x 110mm diameter	No	30
Carried Forward to Summary of Section No. 14			R
Section No. 14			
Bill No. 3			
SEWER RETICULATION			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

SECTION SUMMARY - SECTION 15 : CIVIL ENGINEERING (WATER & SANIT

Bill No		Page No	Amount
1	SITE CLEARANCE	241	
2	WATER NETWORK & SUPPLY	245	
3	SEWER RETICULATION	248	
Carried to Final Summary			R
Section No. 14 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
<u>SECTION 16 : CIVIL ENGINEERING (ROADS & STORMWATER)</u>				
<u>BILL NO.1 - SITE CLEARANCE</u>				
<u>OPEN CHANNEL</u>				
1	Clear and grub of site	m2	194	
	<u>Remove and grub large trees and stumps</u>			
2	a) Girth over 1000mm up to 2000mm (provisional)	No		Rate Only
3	b) Girth over 2000mm up to 3000mm (provisional)	No		Rate Only
<u>PARKING</u>				
4	Clear and grub of site	m2	670	
	<u>Remove and grub large trees and stumps</u>			
5	a) Girth over 1000mm up to 2000mm (provisional)	No		Rate Only
6	b) Girth over 2000mm up to 3000mm (provisional)	No		Rate Only
Carried Forward to Summary of Section No. 15				
Section No. 15				
Bill No. 1				
SITE CLEARANCE				
Tshedimoso Elemental Estimate Rev02				
Stage 3 - Elemental Estimate				
			R	

Item No		Quantity	Rate	Amount
	<u>SECTION 16 : CIVIL ENGINEERING (ROADS & STORMWATER)</u>			
	<u>BILL NO.1 - ROADS & STORMWATER</u>			
	<u>EARTHWORKS (ROADS, SUBGRADE)</u>			
	<u>a) Roadbed preparation and compaction of material to</u>			
1	i) minimum of 90% mod. AASHTO maximum density	m3	110.57	
2	Selected layer (G7) compacted to 95% of mod. AASHTO maximum	m3	110.57	
3	Overhaul (m3/km)	m3	110.57	
	<u>GABIONS AND PITCHING</u>			
	<u>Surface preparation for bedding of gabions</u>			
4	a) Cavities filled with approved excavated material or rock	m3	4.00	
	<u>CONCRETE (SMALL WORKS)</u>			
5	High-Tensile Welded Mesh (REF. 395)	m2	1.08	
6	30 Mpa/19 mm (refer to DWG KB043/DBSA-NW-TPS/SW-SD-001)	m3	1.19	
	<u>STORMWATER DRAINAGE</u>			
	Carried Forward			
	Section No. 15 Bill No. 2 ROADS & STORMWATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		R	

Brought Forward			R
<u>Alternative to Subclause 8.2.8</u>			
7	(a) 230mm thick	m2	1.66
<u>Accessories</u>			
8	(b) Grid inlets including frames (600x600 light duty square dish	No	1.00
<u>SUBBASE</u>			
<u>Construct the subbase course/shoulders/gravel wearing course with material from commercial sources</u>			
<u>(a) Gravel subbase (unstabilised gravel) compacted to</u>			
9	i) minimum of 98% mod. AASHTO maximum density	m3	110.57
<u>Process (C4) subbase material by the following processes, as relevant, and use in the subbase</u>			
10	(d) Stabilisation	m3	110.57
<u>Stabilising agent</u>			
11	(b) Portland cement	t	46.77
Carried Forward			R
Section No. 15 Bill No. 2 ROADS & STORMWATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

			Brought Forward		R
	<u>SEGMENTED PAVING</u>				
12	Provision of Edge Restraints				SUM
13	(b) 80mm	m2	851.40		
14	Cutting Units to Fit Edge Restraints				
		m	369		
15	(b) Portland cement				
		t	58.45		
	<u>KERBING AND CHANNELING</u>				
	<u>Concrete kerbing</u>				
	<u>(a) Fig. 4</u>				
16	(i) 330 mm	m	46.83		
17	(ii) 1000 mm	m	187.31		
	<u>(a) Fig. 4</u>				
18	(i) 330 mm	m	139.00		
19	(ii) 1000 mm	m	463.32		
	<u>Trimming of Excavations for Concrete-Lined Open Drains in</u>				
20	(a) Soft material	m2	324.03		
	Carried Forward				R
	Section No. 15 Bill No. 2 ROADS & STORMWATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
21	Sealed Joints in Concrete Lining of Open Drains	m	427.72
22	Sprayed Bitumen Emulsion Primer for Concrete-Lined Open Drains	m2	27.06
<u>ANCILLARY ROADWORKS</u>			
<u>Sign Faces with Painted or Galvanized (as Stated) Background, with Painted Symbols, Characters, Legend, and Borders, and with Signboards Constructed from</u>			
<u>(a)</u>			
<u>Aluminium sheet (2.0 mm thick), of area</u>			
23	(i) Up to 2 m2	m2	5
<u>Sign Supports</u>			
24	(a) Steel tubing (110 mm dia, 2.5 mm wall thickness)	t	0.10
<u>Excavation and Backfilling and Concreting for Sign Supports</u>			
25	(a) Backfill	m3	2.35
26	(b) Class 20/19 concrete	m3	
Carried Forward			Rate Only
Section No. 15 Bill No. 2 ROADS & STORMWATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			R

		Brought Forward		R
	<u>Setting out and premarking</u>			
27	Lines (excluding traffic island markings, characters, and symbols)	m	350.00	
Carried Forward to Summary of Section No. 15				R
Section No. 15				
Bill No. 2				
ROADS & STORMWATER				
Tshedimoso Elemental Estimate Rev02				
Stage 3 - Elemental Estimate				

Item No		Quantity	Rate	Amount
	<u>SECTION 16 : CIVIL ENGINEERING (ROADS & STORMWATER)</u>			
	<u>BILL NO.1 - EARTHWORKS</u>			
	<u>EARTHWORKS</u>			
1	Clear and grub of site	m2	9 000.00	
2	Remove topsoil to nominal depth 150 mm	m2	9 000.00	
	<u>Selected (G5) layers constructed to 150 mm thickness</u>			
3	a) Compact to 95% of mod. AASHTO maximum density	m3	1 040.60	
	<u>Cut to spoil</u>			
4	a) Soft excavations	m3	5 991.00	
5	Overhaul (m3/km)	m3	5 991.00	
	Carried Forward to Summary of Section No. 15			R
	Section No. 15 Bill No. 3 EARTHWORKS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

SECTION SUMMARY - SECTION 16: CIVIL ENGINEERING (ROADS & STORM

Bill No		Page No	Amount
1	SITE CLEARANCE	250	
2	ROADS & STORMWATER	255	
3	EARTHWORKS	256	
Carried to Final Summary			R
Section No. 15 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 17: ELECTRICAL ENGINEERING</u>			
	<u>BILL NO 1: BULK SUPPLY & RETICULATION & ESKOM UPGRADE CONTRIBUTION</u>			
	The complete installation must comply SANS 0142 specifications and the Quality specification in this document. Therefore Tenders are advised to study the specification and drawings before the Bill is to be price.			
	<u>BULK SUPPLY</u>			
1	Allow a Provisional Sum for upgrading of Service Connection based on Eskom tariff Plan bulk Engineering Contributions (100kVA).			SUM
2	Supply and install municipal distribution kiosk (metering kiosk) as per schematic diagram. The distribution kiosk shall comply with the Eskom requirements. The rate shall include meter and plinth.	EACH	1.00	
	<u>CABLES, CONDUCTORS & SLEEVES</u>			
	<u>Supply and install PVC insulated amoured copper cables</u>			
3	70mm ² 4 x core PVC insulated copper cable (For incoming municipal supply, supply cable from the boundary kiosk to the main distribution board)	m	50.00	
4	16mm ² 4 core PVC insulated copper cable	m	300.00	
5	16mm ² 3 core PVC insulated copper cable	m	350.00	
	<u>Supply and install bare copper earth conductor</u>			
6	35mm ² bare copper earth cable	m	50.00	
7	10mm ² bare copper earth cable	m	300.00	
8	6mm ² bare copper earth cable	m	350.00	
	Carried Forward			R
	Section No. 16 Bill No. 1 BULK SUPPLY & RETICULATION & ESKOM UPGRADE Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
<u>GLANDS AND SHROUDS</u>				
9	70mm ² 4 x core PVC insulated copper cable	EACH	2.00	Rate Only
10	16mm ² 4 core PVC insulated copper cable	EACH	8.00	
11	16mm ² 3 core PVC insulated copper cable	EACH	10.00	
<u>GLANDS AND SHROUDS (Earth bare)</u>				
12	35mm ² bare copper earth cable	EACH	2.00	
13	10mm ² bare copper earth cable	EACH	8.00	
14	6mm ² bare copper earth cable	EACH	10.00	
<u>CABLE MARKERS & WARNING TAPES</u>				
15	Cable markers for cable routes indication	EACH	20.00	
16	Cable warning tape	m	400.00	
<u>SUPPLY & INSTALL PVC SLEEVES</u>				
17	110 diameter	m	100.00	
18	50 diameter	m	100.00	
<u>TRENCHING AND EXCAVATIONS (600mm wide & 800mm deep). Rate to include bedding and backfilling</u>				
19	Pickable soil	m ³	192.00	
20	Soft rock	m ³	20.00	
21	Hard rock	m ³	20.00	
22	Install 600x600x800mm manhole (provision)	EACH	5.00	
Carried Forward to Summary of Section No. 16				R
Section No. 16				
Bill No. 1				
BULK SUPPLY & RETICULATION & ESKOM UPGRADE				
Tshedimoso Elemental Estimate Rev02				
Stage 3 - Elemental Estimate				

Item No		Quantity	Rate	Amount
<u>SECTION 17: ELECTRICAL ENGINEERING</u>				
<u>BILL NO 2 : BLOCK 1 : ADMIN BUILDING- ELECTRICAL INSTALLATION</u>				
The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.				
<u>CONDUITS</u>				
<u>Supply and install pipes including short lengths jointing, sweeping bends, buses, locknuts, roundboxes etc.:</u>				
1	20mm diameter PVC pipe cast into concrete, brick work or suspended in ceiling voids	m	850.00	
2	20mm diameter copex conduit	m	50.00	
<u>Supply and install steel galvanised walls boxes complete with all accessories</u>				
3	100mm x 50mm x 50mm deep	EACH	60.00	
4	100mm x 100mm x 50mm deep	EACH	100.00	
5	Supply and install 1,6mm diameter steel galvanised draw wires drawn into conduit/sleeves:	m	850.00	
6	Supply and install 100mm x 100mm blank cover plates	EACH	10.00	
7	Supply and install 4 way PVC round boxes	EACH	200.00	
8	Supply and install 100mm X 50 blank plates	EACH	10.00	
<u>ELECTRICAL CABLE MANAGEMENT & TRUNKING</u>				
<u>Supply, Install, Test and Commission</u>				
Carried Forward				R
Section No. 16 Bill No. 2 BLOCK 1 : ADMIN BUILDING- ELECTRICAL INSTALLA Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
<p><u>Galvanised unistrut suspended from structure in the roof. Fixings not to exceed 4m including galvanized steel cover (Rates to include: Tees, Bends, 4 ways, ends and all other accessories).</u></p>			
9	P9000 Unistrut	m	60.00
10	P8000 Unistrut	m	
11	P2000 Unistrut	m	
<p><u>Power Skirting Aluminium:(To include All: elbows, corners sections, T-sections & end caps)</u></p>			
12	Cabstrut N8/P803, 2-way with 2 cover plates & divider	m	10.00
<p><u>DISTRIBUTION BOARDS (Refer to schematic diagrams)</u></p>			
13	Supply and install main distribution board (DB-B1) as per the schematic diagram and specifications. The distribution board will be surface mounted in the duct provided. The distribution board doors must have a neat and professionally manufactured cut-out, with reinforced and properly finished edges, so that the main isolator of the distribution board can be switched without opening the door in case of emergency. Distribution boards must lockable and padlocks must be supplied with the distribution board	EACH	1.00
<p><u>CONDUCTORS</u></p>			
<p>Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc. (Wiring for lighting circuits is to be carried out with 2,5mm² conductors and 2,5mm² earth conductors. For socket outlet circuits the wiring shall comprise of 4 mm² conductors with 2, 5mm² earth conductors)</p>			
14	2.5mm ²	m	1 500.00
15	4mm ²	m	100.00
16	6mm ²	m	100.00
Carried Forward			R
<p>Section No. 16 Bill No. 2 BLOCK 1 : ADMIN BUILDING- ELECTRICAL INSTALLA Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Brought Forward			R
<u>Earth Wire</u>			
17	2.5mm2	m	800.00
18	4mm2	m	50.00
<u>SOCKETS OUTLETS</u>			
Supply, install and connect socket outlets in flush wall mounted boxes, power skirting, trunking or surface if required complete with cover plates and all necessary accessories:			
19	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	25.00
20	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) with weatherproof (IP44) box flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	1.00
21	Supply and install 230V, 16A double switched socket outlets	EACH	10.00
22	Supply and install 230V, 16A standard round 3-pin switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-1 socket outlets.	EACH	8.00
23	Supply and install 230V, 16A 3-pin ZA plug switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-2 socket outlets.	EACH	8.00
Carried Forward			R
Section No. 16 Bill No. 2 BLOCK 1 : ADMIN BUILDING- ELECTRICAL INSTALLA Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
24	Supply and install cluster unit to accommodate: 1 x 16A standard round 3- pin switched socket outlet, 16A 3-pin ZA plug switched socket outlet + 1 x RJ11 telephone outlet and RJ45 data outlet complete with covers, blank plates and all necessary accessories (to be installed in 1 tier wall box). Rates to include blank covers for RJ11 and RJ45 only as these outlets are measured under ICT.	EACH	
25	Supply and install 5 Amp single un-switched Socket outlet (complete with 60mm pvc round box for light fittings). The socket to be mounted on the trunking or somewhere else in the ceiling void.	EACH	65.00
<u>SWITCHES</u>			
<u>Supply, install and connect light switches in flush wall mounted boxes, complete with cover plates and all necessary accessories:</u>			
26	Supply and install 16A one lever one way light switch flush mounted on the wall	EACH	20.00
27	Supply and install 16A two lever one way light switch flush mounted on the wall	EACH	1.00
28	Supply and install 16A one lever two way light switch flush mounted on the wall	EACH	6.00
29	Supply and install Day light switch/photocell	EACH	2.00
<u>ISOLATORS</u>			
<u>Supply, install and connect isolators in flush wall mounted boxes or surface, complete with cover plates and all necessary accessories (Isolators to be mounted within one meter of the equipment to be controlled).</u>			
30	Supply and install 230V, 30A double pole isolator surface mounted in the ceiling void for geyser connection. Rates to include 4 inch x 4 inch extension box	EACH	1.00
Carried Forward			R
Section No. 16 Bill No. 2 BLOCK 1 : ADMIN BUILDING- ELECTRICAL INSTALLA Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
31	Supply and install 230V, 60A double pole isolator flush mounted in the wall for stove connection	EACH	1.00
32	Supply and install 230V, 30A double pole isolator mounted in the ceiling void for HVAC .Rates to include 4 inch x 4 inch extension box	EACH	2.00
33	Supply and install 230V, 30A double pole isolator flush mounted in the wall for intercome control panel	EACH	2.00
34	Supply and install 230V, 30A double pole isolator mounted in the ceiling void for siren. Rates to include 4 inch x 4 inch extension box	EACH	2.00
<u>LUMINAIRES</u>			
<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. All recessed light fittings should be supplied with 3m connection lead</u>			
35	Type A1 (1200mm long surface mounted open channel fluorescent light fitting complete with 2 x 28W T5 Lamps and Electronic control gear.	EACH	30.00
36	Type C (Ceiling mounted 18W LED round bulkhead IP65 light fitting with 2 x 9W E27 Edison Screw LED Lamps, prismatic acrylic diffuser)	EACH	28.00
37	Type D (Surface mounted 30W LED flood light fitting)	EACH	3.00
38	Type A6 (1200 x 600mm recessed fluorescent light fitting complete with 3 x 28W T5 Lamp, double parabolic louvres and electronic control gear)	EACH	
39	Type R (Wall mounted round bulkhead IP65 c/w E27 20W red LED lmap, and electronic control gear and prismatic acrylic diffuser)	EACH	1.00
<u>TELECOMMUNICATION AND DATA</u>			
40	RJ11 cover plate on the wall or Power skirting	EACH	10.00
41	RJ45 cover plate on wall or Power skirting	EACH	10.00
Carried Forward			R
Section No. 16 Bill No. 2 BLOCK 1 : ADMIN BUILDING- ELECTRICAL INSTALLA Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
42	450mm x 300mm x 125mmdeep telephone wall box	EACH	1.00	
<u>TESTING AND COMMISSIONING</u>				
43	Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliances by an accredited person.		Item	
Carried Forward to Summary of Section No. 16				R
Section No. 16 Bill No. 2 BLOCK 1 : ADMIN BUILDING- ELECTRICAL INSTALLA Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No		Quantity	Rate	Amount
<u>SECTION 17: ELECTRICAL ENGINEERING</u>				
<u>BILL NO 3 : BLOCK 8 : DINNING ROOM & NUTRITION CENTRE : ELECTRICAL INSTALLATION</u>				
The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.				
<u>CONDUITS</u>				
<u>Supply and install pipes including short lengths jointing, sweeping bends, buses, locknuts, roundboxes etc.:</u>				
1	20mm diameter PVC pipe cast into concrete, brick work or suspended in ceiling voids	m	600.00	
2	20mm diameter copex conduit	m	100.00	
<u>Supply and install steel galvanised walls boxes complete with all accessories</u>				
3	100mm x 50mm x 50mm deep	EACH	50.00	
4	100mm x 100mm x 50mm deep	EACH	100.00	
5	Supply and install 1,6mm diameter steel galvanised draw wires drawn into conduit/sleeves:	m	600.00	
6	Supply and install 100mm x 100mm blank cover plates	EACH	5.00	
7	Supply and install 4 way PVC round boxes	EACH	150.00	
8	Supply and install 100mm X 50 blank plates	EACH	5.00	
<u>ELECTRICAL CABLE MANAGEMENT & TRUNKING</u>				
<u>Supply, Install, Test and Commission</u>				
Carried Forward				R
Section No. 16 Bill No. 3 BLOCK 2 : DINNING ROOM & NUTRITION CENTRE- E Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
<p><u>Galvanised unistrut suspended from structure in the roof. Fixings not to exceed 4m including galvanized steel cover (Rates to include: Tees, Bends, 4 ways, ends and all other accessories).</u></p>			
9	P9000 Unistrut	m	60.00
10	P8000 Unistrut	m	
11	P2000 Unistrut	m	
<p><u>Power Skirting Aluminium:(To include All: elbows, corners sections, T-sections & end caps)</u></p>			
12	Cabstrut N8/P803, 2-way with 2 cover plates & divider	m	
<p><u>DISTRIBUTION BOARDS (Refer to schematic diagrams)</u></p>			
13	Supply and install distribution board as per the schematic diagram and specifications. The distribution board will be flush mounted in the wall. The distribution board doors must have a neat and professionally manufactured cut-out, with reinforced and properly finished edges, so that the main isolator of the distribution board can be switched without opening the door in case of emergency. . Distribution boards must lockable and padlocks must be supplied with the distribution board	EACH	1.00
<p><u>CONDUCTORS</u></p>			
<p>Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc. (Wiring for lighting circuits is to be carried out with 2,5mm² conductors and 2,5mm² earth conductors. For socket outlet circuits the wiring shall comprise of 4 mm² conductors with 2, 5mm² earth conductors)</p>			
14	2.5mm ²	m	1 000.00
15	4mm ²	m	600.00
16	6mm ²	m	100.00
Carried Forward			R
<p>Section No. 16 Bill No. 3 BLOCK 2 : DINNING ROOM & NUTRITION CENTRE- E Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Brought Forward			R
<u>Earth Wire</u>			
17	2.5mm2	m	800.00
18	4mm2	m	50.00
<u>SOCKETS OUTLETS</u>			
Supply, install and connect socket outlets in flush wall mounted boxes, power skirting, trunking or surface if required complete with cover plates and all necessary accessories:			
19	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	10.00
20	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) with weatherproof (IP44) box flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	2.00
21	Supply and install 230V, 16A double switched socket outlets	EACH	15.00
22	Supply and install 230V, 16A 3-pin ZA plug switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-2 socket outlets.	EACH	
23	Supply and install cluster unit to accommodate: 1 x 16A standard round 3- pin switched socket outlet, 16A 3-pin ZA plug switched socket outlet + 1 x RJ11 telephone outlet and RJ45 data outlet complete with covers, blank plates and all necessary accessories (to be installed in 1 tier wall box). Rates to include blank covers for RJ11 and RJ45 only as these outlets are measured under ICT.	EACH	
Carried Forward			R
Section No. 16			
Bill No. 3			
BLOCK 2 : DINNING ROOM & NUTRITION CENTRE- E			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Brought Forward			R
24	Supply and install 5 Amp single un-switched Socket outlet (complete with 60mm pvc round box for light fittings). The socket to be mounted on the trunking or somewhere else in the ceiling void.	EACH	50.00
<u>SWITCHES</u>			
<u>Supply, install and connect light switches in flush wall mounted boxes, complete with cover plates and all necessary accessories:</u>			
25	Supply and install 16A one lever one way light switch flush mounted on the wall	EACH	12.00
26	Supply and install 16A two lever one way light switch flush mounted on the wall	EACH	2.00
27	Supply and install 16A one lever two way light switch flush mounted on the wall	EACH	2.00
28	Supply and install Day light switch/photocell	EACH	2.00
<u>ISOLATORS</u>			
<u>Supply, install and connect isolators in flush wall mounted boxes or surface, complete with cover plates and all necessary accessories (Isolators to be mounted within one meter of the equipment to be controlled).</u>			
29	Supply and install 230V, 30A double pole isolator surface mounted in the ceiling void for geyser connection. Rates to include 4 inch x 4 inch extension box	EACH	2.00
30	Supply and install 230V, 60A double pole isolator flush mounted in the wall for stove connection	EACH	4.00
31	Supply and install 230V, 30A double pole isolator mounted in the ceiling void for HVAC .Rates to include 4 inch x 4 inch extension box	EACH	2.00
<u>LUMINAIRES</u>			
Carried Forward			R
Section No. 16 Bill No. 3 BLOCK 2 : DINNING ROOM & NUTRITION CENTRE- E Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. All recessed light fittings should be supplied with 3m connection lead</u>			
32	Type A1 (1200mm long surface mounted open channel fluorescent light fitting complete with 2 x 28W T5 Lamps and Electronic control gear.	EACH	28.00
33	Type C (Ceiling mounted 18W LED round bulkhead IP65 light fitting with 2 x 9W E27 Edison Screw LED Lamps, prismatic acrylic diffuser)	EACH	18.00
34	Type D (Surface mounted 30W LED flood light fitting)	EACH	2.00
35	Type A6 (1200 x 600mm recessed fluorescent light fitting complete with 3 x 28W T5 Lamp, double parabolic louvres and electronic control gear)	EACH	
36	Type R (Wall mounted round bulkhead IP65 c/w E27 20W red LED lamp, and electronic control gear and prismatic acrylic diffuser)	EACH	
<u>TELECOMMUNICATION AND DATA</u>			
37	RJ11 cover plate on the wall or Power skirting	EACH	
38	RJ45 cover plate on wall or Power skirting	EACH	
39	450mm x 300mm x 125mm deep telephone wall box	EACH	
<u>TESTING AND COMMISSIONING</u>			
40	Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliances by an accredited person.		Item
Carried Forward to Summary of Section No. 16			R
Section No. 16			
Bill No. 3			
BLOCK 2 : DINNING ROOM & NUTRITION CENTRE- E			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
<u>SECTION 17: ELECTRICAL ENGINEERING</u>				
<u>BILL NO 4 : BLOCK 3 : MULTI-MEDIA-ELECTRICAL INSTALLATION</u>				
The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.				
<u>CONDUITS</u>				
<u>Supply and install pipes including short lengths jointing, sweeping bends, buses, locknuts, roundboxes etc.:</u>				
1	20mm diameter PVC pipe cast into concrete, brick work or suspended in ceiling voids	m	500.00	
2	20mm diameter copex conduit	m	100.00	
<u>Supply and install steel galvanised walls boxes complete with all accessories</u>				
3	100mm x 50mm x 50mm deep	EACH	50.00	
4	100mm x 100mm x 50mm deep	EACH	100.00	
5	Supply and install 1,6mm diameter steel galvanised draw wires drawn into conduit/sleeves:	m	500.00	
6	Supply and install 100mm x 100mm blank cover plates	EACH	5.00	
7	Supply and install 4 way PVC round boxes	EACH	120.00	
8	Supply and install 100mm X 50 blank plates	EACH	5.00	
<u>ELECTRICAL CABLE MANAGEMENT & TRUNKING</u>				
<u>Supply, Install, Test and Commission</u>				
Carried Forward				
Section No. 16 Bill No. 4 BLOCK 3: MULTI MEDIA CENTRE- ELECTRICAL INST Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			R	

Brought Forward			R
<p><u>Galvanised unistrut suspended from structure in the roof. Fixings not to exceed 4m including galvanized steel cover (Rates to include: Tees, Bends, 4 ways, ends and all other accessories).</u></p>			
9	P9000 Unistrut	m	32.00
10	P8000 Unistrut	m	
11	P2000 Unistrut	m	
<p><u>Power Skirting Aluminium:(To include All: elbows, corners sections, T-sections & end caps)</u></p>			
12	Cabstrut N8/P803, 2-way with 2 cover plates & divider	m	12.00
<p><u>DISTRIBUTION BOARDS (Refer to schematic diagrams)</u></p>			
13	Supply and install distribution board as per the schematic diagram and specifications. The distribution board will be flush mounted in the wall. The distribution board doors must have a neat and professionally manufactured cut-out, with reinforced and properly finished edges, so that the main isolator of the distribution board can be switched without opening the door in case of emergency. . Distribution boards must lockable and padlocks must be supplied with the distribution board	EACH	1.00
<p><u>CONDUCTORS</u></p>			
<p>Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc. (Wiring for lighting circuits is to be carried out with 2,5mm² conductors and 2,5mm² earth conductors. For socket outlet circuits the wiring shall comprise of 4 mm² conductors with 2, 5mm² earth conductors)</p>			
14	2.5mm ²	m	500.00
15	4mm ²	m	1 000.00
16	6mm ²	m	50.00
Carried Forward			R
<p>Section No. 16 Bill No. 4 BLOCK 3: MULTI MEDIA CENTRE- ELECTRICAL INST Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			

Brought Forward			R
<u>Earth Wire</u>			
17	2.5mm2	m	750.00
18	4mm2	m	25.00
<u>SOCKETS OUTLETS</u>			
Supply, install and connect socket outlets in flush wall mounted boxes, power skirting, trunking or surface if required complete with cover plates and all necessary accessories:			
19	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	2.00
20	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) with weatherproof (IP44) box flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	5.00
21	Supply and install 230V, 16A standard round 3-pin switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-1 socket outlets.	EACH	30.00
22	Supply and install 230V, 16A 3-pin ZA plug switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-2 socket outlets.	EACH	30.00
23	Supply and install cluster unit to accommodate: 1 x 16A standard round 3- pin switched socket outlet, 16A 3-pin ZA plug switched socket outlet + 1 x RJ11 telephone outlet and RJ45 data outlet complete with covers, blank plates and all necessary accessories (to be installed in 1 tier wall box). Rates to include blank covers for RJ11 and RJ45 only as these outlets are measured under ICT.	EACH	
Carried Forward			R
Section No. 16 Bill No. 4 BLOCK 3: MULTI MEDIA CENTRE- ELECTRICAL INST Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
24	Supply and install 5 Amp single un-switched Socket outlet (complete with 60mm pvc round box for light fittings). The socket to be mounted on the trunking or somewhere else in the ceiling void.	EACH	25.00
<u>SWITCHES</u>			
<u>Supply, install and connect light switches in flush wall mounted boxes, complete with cover plates and all necessary accessories:</u>			
25	Supply and install 16A one lever one way light switch flush mounted on the wall	EACH	3.00
26	Supply and install 16A two lever one way light switch flush mounted on the wall	EACH	1.00
27	Supply and install 16A one lever two way light switch flush mounted on the wall	EACH	
28	Supply and install Day light switch/photocell	EACH	2.00
<u>ISOLATORS</u>			
<u>Supply, install and connect isolators in flush wall mounted boxes or surface, complete with cover plates and all necessary accessories (Isolators to be mounted within one meter of the equipment to be controlled).</u>			
29	Supply and install 230V, 30A double pole isolator surface mounted in the ceiling void for geyser connection. Rates to include 4 inch x 4 inch extension box	EACH	
30	Supply and install 230V, 60A double pole isolator flush mounted in the wall for stove connection	EACH	2.00
31	Supply and install 230V, 30A double pole isolator mounted in the ceiling void for HVAC .Rates to include 4 inch x 4 inch extension box	EACH	
<u>LUMINAIRES</u>			
Carried Forward			R
Section No. 16 Bill No. 4 BLOCK 3: MULTI MEDIA CENTRE- ELECTRICAL INST Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. All recessed light fittings should be supplied with 3m connection lead</u>			
32	Type A1 (1200mm long surface mounted open channel fluorescent light fitting complete with 2 x 28W T5 Lamps and Electronic control gear.	EACH	15.00
33	Type C (Ceiling mounted 18W LED round bulkhead IP65 light fitting with 2 x 9W E27 Edison Screw LED Lamps, prismatic acrylic diffuser)	EACH	6.00
34	Type D (Surface mounted 30W LED flood light fitting)	EACH	2.00
35	Type A6 (1200 x 600mm recessed fluorescent light fitting complete with 3 x 28W T5 Lamp, double parabolic louvres and electronic control gear)	EACH	
36	Type R (Wall mounted round bulkhead IP65 c/w E27 20W red LED lamp, and electronic control gear and prismatic acrylic diffuser)	EACH	
<u>TELECOMMUNICATION AND DATA</u>			
37	RJ11 cover plate on the wall or Power skirting	EACH	1.00
38	RJ45 cover plate on wall or Power skirting	EACH	12.00
39	450mm x 300mm x 125mm deep telephone wall box	EACH	1.00
<u>TESTING AND COMMISSIONING</u>			
40	Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliances by an accredited person.		Item
Carried Forward to Summary of Section No. 16			R
Section No. 16			
Bill No. 4			
BLOCK 3: MULTI MEDIA CENTRE- ELECTRICAL INST			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 17: ELECTRICAL ENGINEERING</u>			
	<u>BILL NO 5 :BLOCK 4 GRADE-R : ELECTRICAL INSTALLATION</u>			
	The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.			
	<u>CONDUITS</u>			
	<u>Supply and install pipes including short lengths jointing, sweeping bends, buses, locknuts, roundboxes etc.:</u>			
1	20mm diameter PVC pipe cast into concrete, brick work or suspended in ceiling voids	m	200.00	
2	20mm diameter copex conduit	m	50.00	
	<u>Supply and install steel galvanised walls boxes complete with all accessories</u>			
3	100mm x 50mm x 50mm deep	EACH	50.00	
4	100mm x 100mm x 50mm deep	EACH	50.00	
5	Supply and install 1,6mm diameter steel galvanised draw wires drawn into conduit/sleeves:	m	200.00	
6	Supply and install 100mm x 100mm blank cover plates	EACH	2.00	
7	Supply and install 4 way PVC round boxes	EACH	50.00	
8	Supply and install 100mm X 50 blank plates	EACH	2.00	
	<u>ELECTRICAL CABLE MANAGEMENT & TRUNKING</u>			
	<u>Supply, Install, Test and Commission</u>			
	Carried Forward			R
	Section No. 16 Bill No. 5 BLOCK 4: GRADE R- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Galvanised unistrut suspended from structure in the roof. Fixings not to exceed 4m including galvanized steel cover (Rates to include: Tees, Bends, 4 ways, ends and all other accessories).</u>		
9	P9000 Unistrut	m	24.00
10	P8000 Unistrut	m	
11	P2000 Unistrut	m	
	<u>Power Skirting Aluminium:(To include All: elbows, corners sections, T-sections & end caps)</u>		
12	Cabstrut N8/P803, 2-way with 2 cover plates & divider	m	
	<u>DISTRIBUTION BOARDS (Refer to schematic diagrams)</u>		
13	Supply and install distribution board as per the schematic diagram and specifications. The distribution board will be flush mounted in the wall. The distribution board doors must have a neat and professionally manufactured cut-out, with reinforced and properly finished edges, so that the main isolator of the distribution board can be switched without opening the door in case of emergency. . Distribution boards must lockable and padlocks must be supplied with the distribution board	EACH	1.00
	<u>CONDUCTORS</u>		
	Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc. (Wiring for lighting circuits is to be carried out with 2,5mm² conductors and 2,5mm² earth conductors. For socket outlet circuits the wiring shall comprise of 4 mm² conductors with 2, 5mm² earth conductors)		
14	2.5mm ²	m	500.00
15	4mm ²	m	100.00
16	6mm ²	m	
	Carried Forward		R
	Section No. 16 Bill No. 5 BLOCK 4: GRADE R- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward			R
<u>Earth Wire</u>			
17	2.5mm2	m	300.00
18	4mm2	m	
<u>SOCKETS OUTLETS</u>			
Supply, install and connect socket outlets in flush wall mounted boxes, power skirting, trunking or surface if required complete with cover plates and all necessary accessories:			
19	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	2.00
20	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) with weatherproof (IP44) box flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	3.00
21	Supply and install 230V, 16A standard round 3-pin switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-1 socket outlets.	EACH	
22	Supply and install 230V, 16A 3-pin ZA plug switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-2 socket outlets.	EACH	
23	Supply and install cluster unit to accommodate: 1 x 16A standard round 3- pin switched socket outlet, 16A 3-pin ZA plug switched socket outlet + 1 x RJ11 telephone outlet and RJ45 data outlet complete with covers, blank plates and all necessary accessories (to be installed in 1 tier wall box). Rates to include blank covers for RJ11 and RJ45 only as these outlets are measured under ICT.	EACH	
Carried Forward			R
Section No. 16 Bill No. 5 BLOCK 4: GRADE R- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward		R
24	Supply and install 5 Amp single un-switched Socket outlet (complete with 60mm pvc round box for light fittings). The socket to be mounted on the trunking or somewhere else in the ceiling void.	EACH	25.00	
		<u>SWITCHES</u>		
		<u>Supply, install and connect light switches in flush wall mounted boxes, complete with cover plates and all necessary accessories:</u>		
25	Supply and install 16A one lever one way light switch flush mounted on the wall	EACH	5.00	
26	Supply and install 16A two lever one way light switch flush mounted on the wall	EACH		
27	Supply and install 16A one lever two way light switch flush mounted on the wall	EACH		
28	Supply and install Day light switch/photocell	EACH	2.00	
		<u>ISOLATORS</u>		
		<u>Supply, install and connect isolators in flush wall mounted boxes or surface, complete with cover plates and all necessary accessories (Isolators to be mounted within one meter of the equipment to be controlled).</u>		
29	Supply and install 230V, 30A double pole isolator surface mounted in the ceiling void for geyser connection. Rates to include 4 inch x 4 inch extension box	EACH		
30	Supply and install 230V, 60A double pole isolator flush mounted in the wall for stove connection	EACH	1.00	
31	Supply and install 230V, 30A double pole isolator mounted in the ceiling void for HVAC .Rates to include 4 inch x 4 inch extension box	EACH		
		<u>LUMINAIRES</u>		
		Carried Forward		
				R
Section No. 16 Bill No. 5 BLOCK 4: GRADE R- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. All recessed light fittings should be supplied with 3m connection lead</u>			
32	Type A1 (1200mm long surface mounted open channel fluorescent light fitting complete with 2 x 28W T5 Lamps and Electronic control gear.	EACH	11.00
33	Type C (Ceiling mounted 18W LED round bulkhead IP65 light fitting with 2 x 9W E27 Edison Screw LED Lamps, prismatic acrylic diffuser)	EACH	9.00
34	Type D (Surface mounted 30W LED flood light fitting)	EACH	2.00
35	Type A6 (1200 x 600mm recessed fluorescent light fitting complete with 3 x 28W T5 Lamp, double parabolic louvres and electronic control gear)	EACH	
36	Type R (Wall mounted round bulkhead IP65 c/w E27 20W red LED lamp, and electronic control gear and prismatic acrylic diffuser)	EACH	
<u>TELECOMMUNICATION AND DATA</u>			
37	RJ11 cover plate on the wall or Power skirting	EACH	
38	RJ45 cover plate on wall or Power skirting	EACH	
39	450mm x 300mm x 125mm deep telephone wall box	EACH	
<u>TESTING AND COMMISSIONING</u>			
40	Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliances by an accredited person.		Item
Carried Forward to Summary of Section No. 16			R
Section No. 16			
Bill No. 5			
BLOCK 4: GRADE R- ELECTRICAL INSTALLATION			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No	SECTION 17: ELECTRICAL ENGINEERING	Quantity	Rate	Amount
	<u>BILL NO 6 : BLOCK 1 EXISITING CLASSROOM : ELECTRICAL INSTALLATION</u> The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.			
	<u>CONDUITS</u> <u>Supply and install pipes including short lengths jointing, sweeping bends, buses, locknuts, roundboxes etc.:</u>			
1	20mm diameter PVC pipe cast into concrete, brick work or suspended in ceiling voids	m	300.00	
2	20mm diameter copex conduit	m	50.00	
	<u>Supply and install steel galvanised walls boxes complete with all accessories</u>			
3	100mm x 50mm x 50mm deep	EACH	50.00	
4	100mm x 100mm x 50mm deep	EACH	50.00	
5	Supply and install 1,6mm diameter steel galvanised draw wires drawn into conduit/sleeves:	m	300.00	
6	Supply and install 100mm x 100mm blank cover plates	EACH	2.00	
7	Supply and install 4 way PVC round boxes	EACH	50.00	
8	Supply and install 100mm X 50 blank plates	EACH	2.00	
	<u>ELECTRICAL CABLE MANAGEMENT & TRUNKING</u> <u>Supply, Install, Test and Commission</u>			
	Carried Forward			R
	Section No. 16 Bill No. 6 EXISTING CLASSROOMS BLOCK 1- ELECTRICAL INS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Galvanised unistrut suspended from structure in the roof. Fixings not to exceed 4m including galvanized steel cover (Rates to include: Tees, Bends, 4 ways, ends and all other accessories).</u>		
9	P9000 Unistrut	m	60.00
10	P8000 Unistrut	m	
11	P2000 Unistrut	m	
	<u>Power Skirting Aluminium:(To include All: elbows, corners sections, T-sections & end caps)</u>		
12	Cabstrut N8/P803, 2-way with 2 cover plates & divider	m	
	<u>DISTRIBUTION BOARDS (Refer to schematic diagrams)</u>		
13	Supply and install distribution board as per the schematic diagram and specifications. The distribution board will be flush mounted in the wall. The distribution board doors must have a neat and professionally manufactured cut-out, with reinforced and properly finished edges, so that the main isolator of the distribution board can be switched without opening the door in case of emergency. . Distribution boards must lockable and padlocks must be supplied with the distribution board	EACH	1.00
	<u>CONDUCTORS</u>		
	Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc. (Wiring for lighting circuits is to be carried out with 2,5mm² conductors and 2,5mm² earth conductors. For socket outlet circuits the wiring shall comprise of 4 mm² conductors with 2, 5mm² earth conductors)		
14	2.5mm ²	m	700.00
15	4mm ²	m	100.00
16	6mm ²	m	
	Carried Forward		R
	Section No. 16 Bill No. 6 EXISTING CLASSROOMS BLOCK 1- ELECTRICAL INS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward			R
<u>Earth Wire</u>			
17	2.5mm2	m	400.00
18	4mm2	m	
<u>SOCKETS OUTLETS</u>			
Supply, install and connect socket outlets in flush wall mounted boxes, power skirting, trunking or surface if required complete with cover plates and all necessary accessories:			
19	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	8.00
20	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) with weatherproof (IP44) box flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	
21	Supply and install 230V, 16A standard round 3-pin switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-1 socket outlets.	EACH	
22	Supply and install 230V, 16A 3-pin ZA plug switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-2 socket outlets.	EACH	
23	Supply and install cluster unit to accommodate: 1 x 16A standard round 3- pin switched socket outlet, 16A 3-pin ZA plug switched socket outlet + 1 x RJ11 telephone outlet and RJ45 data outlet complete with covers, blank plates and all necessary accessories (to be installed in 1 tier wall box). Rates to include blank covers for RJ11 and RJ45 only as these outlets are measured under ICT.	EACH	
Carried Forward			R
Section No. 16 Bill No. 6 EXISTING CLASSROOMS BLOCK 1- ELECTRICAL INS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward		R
24	Supply and install 5 Amp single un-switched Socket outlet (complete with 60mm pvc round box for light fittings). The socket to be mounted on the trunking or somewhere else in the ceiling void.	EACH	25.00	
		<u>SWITCHES</u>		
		<u>Supply, install and connect light switches in flush wall mounted boxes, complete with cover plates and all necessary accessories:</u>		
25	Supply and install 16A one lever one way light switch flush mounted on the wall	EACH	4.00	
26	Supply and install 16A two lever one way light switch flush mounted on the wall	EACH		
27	Supply and install 16A one lever two way light switch flush mounted on the wall	EACH		
28	Supply and install Day light switch/photocell	EACH	2.00	
		<u>ISOLATORS</u>		
		<u>Supply, install and connect isolators in flush wall mounted boxes or surface, complete with cover plates and all necessary accessories (Isolators to be mounted within one meter of the equipment to be controlled).</u>		
29	Supply and install 230V, 30A double pole isolator surface mounted in the ceiling void for geyser connection. Rates to include 4 inch x 4 inch extension box	EACH		
30	Supply and install 230V, 60A double pole isolator flush mounted in the wall for stove connection	EACH		
31	Supply and install 230V, 30A double pole isolator mounted in the ceiling void for HVAC .Rates to include 4 inch x 4 inch extension box	EACH		
		<u>LUMINAIRES</u>		
		Carried Forward		R
Section No. 16 Bill No. 6 EXISTING CLASSROOMS BLOCK 1- ELECTRICAL INS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. All recessed light fittings should be supplied with 3m connection lead</u>			
32	Type A1 (1200mm long surface mounted open channel fluorescent light fitting complete with 2 x 28W T5 Lamps and Electronic control gear.	EACH	24.00
33	Type C (Ceiling mounted 18W LED round bulkhead IP65 light fitting with 2 x 9W E27 Edison Screw LED Lamps, prismatic acrylic diffuser)	EACH	10.00
34	Type D (Surface mounted 30W LED flood light fitting)	EACH	2.00
35	Type A6 (1200 x 600mm recessed fluorescent light fitting complete with 3 x 28W T5 Lamp, double parabolic louvres and electronic control gear)	EACH	
36	Type R (Wall mounted round bulkhead IP65 c/w E27 20W red LED lamp, and electronic control gear and prismatic acrylic diffuser)	EACH	
<u>TELECOMMUNICATION AND DATA</u>			
37	RJ11 cover plate on the wall or Power skirting	EACH	
38	RJ45 cover plate on wall or Power skirting	EACH	
39	450mm x 300mm x 125mm deep telephone wall box	EACH	
<u>TESTING AND COMMISSIONING</u>			
40	Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliances by an accredited person.		Item
Carried Forward to Summary of Section No. 16			R
Section No. 16			
Bill No. 6			
EXISTING CLASSROOMS BLOCK 1- ELECTRICAL INS			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 17 : ELECTRICAL ENGINEERING</u>			
	<u>BILL NO 7 : BLOCK 2 EXISTING</u>			
	<u>CLASSROOM : ELECTRICAL</u>			
	<u>INSTALLATION</u>			
	The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.			
	<u>CONDUITS</u>			
	<u>Supply and install pipes including short lengths jointing, sweeping bends, buses, locknuts, roundboxes etc.:</u>			
1	20mm diameter PVC pipe cast into concrete, brick work or suspended in ceiling voids	m	300.00	
2	20mm diameter copex conduit	m	50.00	
	<u>Supply and install steel galvanised walls boxes complete with all accessories</u>			
3	100mm x 50mm x 50mm deep	EACH	50.00	
4	100mm x 100mm x 50mm deep	EACH	50.00	
5	Supply and install 1,6mm diameter steel galvanised draw wires drawn into conduit/sleeves:	m	300.00	
6	Supply and install 100mm x 100mm blank cover plates	EACH	2.00	
7	Supply and install 4 way PVC round boxes	EACH	50.00	
8	Supply and install 100mm X 50 blank plates	EACH	2.00	
	<u>ELECTRICAL CABLE MANAGEMENT & TRUNKING</u>			
	<u>Supply, Install, Test and Commission</u>			
	Carried Forward			R
	Section No. 16 Bill No. 7 EXISTING CLASSROOMS BLOCK 2- ELECTRICAL INS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Galvanised unistrut suspended from structure in the roof. Fixings not to exceed 4m including galvanized steel cover (Rates to include: Tees, Bends, 4 ways, ends and all other accessories).</u>		
9	P9000 Unistrut	m	60.00
10	P8000 Unistrut	m	
11	P2000 Unistrut	m	
	<u>Power Skirting Aluminium:(To include All: elbows, corners sections, T-sections & end caps)</u>		
12	Cabstrut N8/P803, 2-way with 2 cover plates & divider	m	
	<u>DISTRIBUTION BOARDS (Refer to schematic diagrams)</u>		
13	Supply and install distribution board as per the schematic diagram and specifications. The distribution board will be flush mounted in the wall. The distribution board doors must have a neat and professionally manufactured cut-out, with reinforced and properly finished edges, so that the main isolator of the distribution board can be switched without opening the door in case of emergency. . Distribution boards must lockable and padlocks must be supplied with the distribution board	EACH	1.00
	<u>CONDUCTORS</u>		
	Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc. (Wiring for lighting circuits is to be carried out with 2,5mm² conductors and 2,5mm² earth conductors. For socket outlet circuits the wiring shall comprise of 4 mm² conductors with 2, 5mm² earth conductors)		
14	2.5mm ²	m	700.00
15	4mm ²	m	100.00
16	6mm ²	m	
	Carried Forward		R
	Section No. 16 Bill No. 7 EXISTING CLASSROOMS BLOCK 2- ELECTRICAL INS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

			Brought Forward	R
<u>Earth Wire</u>				
17	2.5mm2	m	400.00	
18	4mm2	m		
<u>SOCKETS OUTLETS</u>				
Supply, install and connect socket outlets in flush wall mounted boxes, power skirting, trunking or surface if required complete with cover plates and all necessary accessories:				
19	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	8.00	
20	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) with weatherproof (IP44) box flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH		
21	Supply and install 230V, 16A standard round 3-pin switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-1 socket outlets.	EACH		
22	Supply and install 230V, 16A 3-pin ZA plug switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-2 socket outlets.	EACH		
23	Supply and install cluster unit to accommodate: 1 x 16A standard round 3- pin switched socket outlet, 16A 3-pin ZA plug switched socket outlet + 1 x RJ11 telephone outlet and RJ45 data outlet complete with covers, blank plates and all necessary accessories (to be installed in 1 tier wall box). Rates to include blank covers for RJ11 and RJ45 only as these outlets are measured under ICT.	EACH		
			Carried Forward	R
Section No. 16 Bill No. 7 EXISTING CLASSROOMS BLOCK 2- ELECTRICAL INS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

		Brought Forward		R
24	Supply and install 5 Amp single un-switched Socket outlet (complete with 60mm pvc round box for light fittings). The socket to be mounted on the trunking or somewhere else in the ceiling void.	EACH	25.00	
		<u>SWITCHES</u>		
		<u>Supply, install and connect light switches in flush wall mounted boxes, complete with cover plates and all necessary accessories:</u>		
25	Supply and install 16A one lever one way light switch flush mounted on the wall	EACH	4.00	
26	Supply and install 16A two lever one way light switch flush mounted on the wall	EACH		
27	Supply and install 16A one lever two way light switch flush mounted on the wall	EACH		
28	Supply and install Day light switch/photocell	EACH	2.00	
		<u>ISOLATORS</u>		
		<u>Supply, install and connect isolators in flush wall mounted boxes or surface, complete with cover plates and all necessary accessories (Isolators to be mounted within one meter of the equipment to be controlled).</u>		
29	Supply and install 230V, 30A double pole isolator surface mounted in the ceiling void for geyser connection. Rates to include 4 inch x 4 inch extension box	EACH		
30	Supply and install 230V, 60A double pole isolator flush mounted in the wall for stove connection	EACH		
31	Supply and install 230V, 30A double pole isolator mounted in the ceiling void for HVAC .Rates to include 4 inch x 4 inch extension box	EACH		
		<u>LUMINAIRES</u>		
		Carried Forward		
				R
Section No. 16 Bill No. 7 EXISTING CLASSROOMS BLOCK 2- ELECTRICAL INS Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. All recessed light fittings should be supplied with 3m connection lead</u>			
32	Type A1 (1200mm long surface mounted open channel fluorescent light fitting complete with 2 x 28W T5 Lamps and Electronic control gear.	EACH	24.00
33	Type C (Ceiling mounted 18W LED round bulkhead IP65 light fitting with 2 x 9W E27 Edison Screw LED Lamps, prismatic acrylic diffuser)	EACH	10.00
34	Type D (Surface mounted 30W LED flood light fitting)	EACH	2.00
35	Type A6 (1200 x 600mm recessed fluorescent light fitting complete with 3 x 28W T5 Lamp, double parabolic louvres and electronic control gear)	EACH	
36	Type R (Wall mounted round bulkhead IP65 c/w E27 20W red LED lamp, and electronic control gear and prismatic acrylic diffuser)	EACH	
<u>TELECOMMUNICATION AND DATA</u>			
37	RJ11 cover plate on the wall or Power skirting	EACH	
38	RJ45 cover plate on wall or Power skirting	EACH	
39	450mm x 300mm x 125mm deep telephone wall box	EACH	
<u>TESTING AND COMMISSIONING</u>			
40	Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliances by an accredited person.		Item
Carried Forward to Summary of Section No. 16			R
Section No. 16			
Bill No. 7			
EXISTING CLASSROOMS BLOCK 2- ELECTRICAL INS			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 17 : ELECTRICAL ENGINEERING</u>			
	<u>BILL NO 8 : BLOCK 3 EXISTING ABLUTION: ELECTRICAL INSTALLATION</u>			
	The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.			
	<u>CONDUITS</u>			
	<u>Supply and install pipes including short lengths jointing, sweeping bends, buses, locknuts, roundboxes etc.:</u>			
1	20mm diameter PVC pipe cast into concrete, brick work or suspended in ceiling voids	m	150.00	
2	20mm diameter copex conduit	m	50.00	
	<u>Supply and install steel galvanised walls boxes complete with all accessories</u>			
3	100mm x 50mm x 50mm deep	EACH	25.00	
4	100mm x 100mm x 50mm deep	EACH	25.00	
5	Supply and install 1,6mm diameter steel galvanised draw wires drawn into conduit/sleeves:	m	150.00	
6	Supply and install 100mm x 100mm blank cover plates	EACH	2.00	
7	Supply and install 4 way PVC round boxes	EACH	50.00	
8	Supply and install 100mm X 50 blank plates	EACH	2.00	
	<u>ELECTRICAL CABLE MANAGEMENT & TRUNKING</u>			
	<u>Supply, Install, Test and Commission</u>			
	Carried Forward			R
	Section No. 16 Bill No. 8 EXISTING ABLUTIONS- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
	<u>Galvanised unistrut suspended from structure in the roof. Fixings not to exceed 4m including galvanized steel cover (Rates to include: Tees, Bends, 4 ways, ends and all other accessories).</u>		
9	P9000 Unistrut	m	15.00
10	P8000 Unistrut	m	
11	P2000 Unistrut	m	
	<u>Power Skirting Aluminium:(To include All: elbows, corners sections, T-sections & end caps)</u>		
12	Cabstrut N8/P803, 2-way with 2 cover plates & divider	m	
	<u>DISTRIBUTION BOARDS (Refer to schematic diagrams)</u>		
13	Supply and install distribution board as per the schematic diagram and specifications. The distribution board will be flush mounted in the wall. The distribution board doors must have a neat and professionally manufactured cut-out, with reinforced and properly finished edges, so that the main isolator of the distribution board can be switched without opening the door in case of emergency. . Distribution boards must lockable and padlocks must be supplied with the distribution board	EACH	1.00
	<u>CONDUCTORS</u>		
	Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc. (Wiring for lighting circuits is to be carried out with 2,5mm² conductors and 2,5mm² earth conductors. For socket outlet circuits the wiring shall comprise of 4 mm² conductors with 2, 5mm² earth conductors)		
14	2.5mm ²	m	500.00
15	4mm ²	m	50.00
16	6mm ²	m	
	Carried Forward		R
	Section No. 16 Bill No. 8 EXISTING ABLUTIONS- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		

Brought Forward			R
<u>Earth Wire</u>			
17	2.5mm2	m	275.00
18	4mm2	m	
<u>SOCKETS OUTLETS</u>			
Supply, install and connect socket outlets in flush wall mounted boxes, power skirting, trunking or surface if required complete with cover plates and all necessary accessories:			
19	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	2.00
20	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) with weatherproof (IP44) box flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	
21	Supply and install 230V, 16A standard round 3-pin switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-1 socket outlets.	EACH	
22	Supply and install 230V, 16A 3-pin ZA plug switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-2 socket outlets.	EACH	
23	Supply and install cluster unit to accommodate: 1 x 16A standard round 3- pin switched socket outlet, 16A 3-pin ZA plug switched socket outlet + 1 x RJ11 telephone outlet and RJ45 data outlet complete with covers, blank plates and all necessary accessories (to be installed in 1 tier wall box). Rates to include blank covers for RJ11 and RJ45 only as these outlets are measured under ICT.	EACH	
Carried Forward			R
Section No. 16 Bill No. 8 EXISTING ABLUTIONS- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward		R
24	Supply and install 5 Amp single un-switched Socket outlet (complete with 60mm pvc round box for light fittings). The socket to be mounted on the trunking or somewhere else in the ceiling void.	EACH	25.00	
		<u>SWITCHES</u>		
		<u>Supply, install and connect light switches in flush wall mounted boxes, complete with cover plates and all necessary accessories:</u>		
25	Supply and install 16A one lever one way light switch flush mounted on the wall	EACH	3.00	
26	Supply and install 16A two lever one way light switch flush mounted on the wall	EACH		
27	Supply and install 16A one lever two way light switch flush mounted on the wall	EACH		
28	Supply and install Day light switch/photocell	EACH	2.00	
		<u>ISOLATORS</u>		
		<u>Supply, install and connect isolators in flush wall mounted boxes or surface, complete with cover plates and all necessary accessories (Isolators to be mounted within one meter of the equipment to be controlled).</u>		
29	Supply and install 230V, 30A double pole isolator surface mounted in the ceiling void for geyser connection. Rates to include 4 inch x 4 inch extension box	EACH		
30	Supply and install 230V, 60A double pole isolator flush mounted in the wall for stove connection	EACH		
31	Supply and install 230V, 30A double pole isolator mounted in the ceiling void for HVAC .Rates to include 4 inch x 4 inch extension box	EACH		
		<u>LUMINAIRES</u>		
		Carried Forward		
				R
Section No. 16 Bill No. 8 EXISTING ABLUTIONS- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. All recessed light fittings should be supplied with 3m connection lead</u>			
32	Type A1 (1200mm long surface mounted open channel fluorescent light fitting complete with 2 x 28W T5 Lamps and Electronic control gear.	EACH	
33	Type C (Ceiling mounted 18W LED round bulkhead IP65 light fitting with 2 x 9W E27 Edison Screw LED Lamps, prismatic acrylic diffuser)	EACH	25.00
34	Type D (Surface mounted 30W LED flood light fitting)	EACH	2.00
35	Type A6 (1200 x 600mm recessed fluorescent light fitting complete with 3 x 28W T5 Lamp, double parabolic louvres and electronic control gear)	EACH	
36	Type R (Wall mounted round bulkhead IP65 c/w E27 20W red LED lamp, and electronic control gear and prismatic acrylic diffuser)	EACH	
<u>TELECOMMUNICATION AND DATA</u>			
37	RJ11 cover plate on the wall or Power skirting	EACH	
38	RJ45 cover plate on wall or Power skirting	EACH	
39	450mm x 300mm x 125mm deep telephone wall box	EACH	
<u>TESTING AND COMMISSIONING</u>			
40	Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliances by an accredited person.		Item
Carried Forward to Summary of Section No. 16			R
Section No. 16			
Bill No. 8			
EXISTING ABLUTIONS- ELECTRICAL INSTALLATION			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 17 : ELECTRICAL ENGINEERING</u>			
	<u>BILL NO 9 : GUARDHOUSE & PUMP HOUSE: ELECTRICAL INSTALLATION</u>			
	The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.			
	<u>CONDUITS</u>			
	<u>Supply and install pipes including short lengths jointing, sweeping bends, buses, locknuts, roundboxes etc.:</u>			
1	20mm diameter PVC pipe cast into concrete, brick work or suspended in ceiling voids	m	100.00	
2	20mm diameter copex conduit	m	20.00	
	<u>Supply and install steel galvanised walls boxes complete with all accessories</u>			
3	100mm x 50mm x 50mm deep	EACH	10.00	
4	100mm x 100mm x 50mm deep	EACH	20.00	
5	Supply and install 1,6mm diameter steel galvanised draw wires drawn into conduit/sleeves:	m	100.00	
6	Supply and install 100mm x 100mm blank cover plates	EACH	2.00	
7	Supply and install 4 way PVC round boxes	EACH	25.00	
8	Supply and install 100mm X 50 blank plates	EACH	2.00	
	<u>ELECTRICAL CABLE MANAGEMENT & TRUNKING</u>			
	<u>Supply, Install, Test and Commission</u>			
	Carried Forward			R
	Section No. 16 Bill No. 9 GUARDHOUSE- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
<p><u>Galvanised unistrut suspended from structure in the roof. Fixings not to exceed 4m including galvanized steel cover (Rates to include: Tees, Bends, 4 ways, ends and all other accessories).</u></p>				
9	P9000 Unistrut	m	10.00	
10	P8000 Unistrut	m		
11	P2000 Unistrut	m		
<p><u>Power Skirting Aluminium:(To include All: elbows, corners sections, T-sections & end caps)</u></p>				
12	Cabstrut N8/P803, 2-way with 2 cover plates & divider	m		
<p><u>DISTRIBUTION BOARDS (Refer to schematic diagrams)</u></p> <p>Supply and install distribution board as per the schematic diagram and specifications. The distribution board will be flush mounted in the wall. The distribution board doors must have a neat and professionally manufactured cut-out, with reinforced and properly finished edges, so that the main isolator of the distribution board can be switched without opening the door in case of emergency. . Distribution boards must lockable and padlocks must be supplied with the distribution board</p>				
13	DB-B9	EACH	1.00	
<p><u>CONDUCTORS</u></p> <p>Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc. (Wiring for lighting circuits is to be carried out with 2,5mm² conductors and 2,5mm² earth conductors. For socket outlet circuits the wiring shall comprise of 4 mm² conductors with 2, 5mm² earth conductors)</p>				
14	2.5mm2	m	300.00	
15	4mm2	m	300.00	
Carried Forward				R
<p>Section No. 16 Bill No. 9 GUARDHOUSE- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>				

Brought Forward				R
16	6mm2	m		
<u>Earth Wire</u>				
17	2.5mm2	m	300.00	
18	4mm2	m		
<u>SOCKETS OUTLETS</u>				
Supply, install and connect socket outlets in flush wall mounted boxes, power skirting, trunking or surface if required complete with cover plates and all necessary accessories:				
19	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH	4.00	
20	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) with weatherproof (IP44) box flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets.	EACH		
21	Supply and install 230V, 16A standard round 3-pin switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-1 socket outlets.	EACH		
22	Supply and install 230V, 16A 3-pin ZA plug switched socket outlets flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-2 socket outlets.	EACH		
Carried Forward				R
Section No. 16 Bill No. 9 GUARDHOUSE- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward				R
23	Supply and install cluster unit to accommodate: 1 x 16A standard round 3- pin switched socket outlet, 16A 3-pin ZA plug switched socket outlet + 1 x RJ11 telephone outlet and RJ45 data outlet complete with covers, blank plates and all necessary accessories (to be installed in 1 tier wall box). Rates to include blank covers for RJ11 and RJ45 only as these outlets are measured under ICT.	EACH		
24	Supply and install 5 Amp single un-switched Socket outlet (complete with 60mm pvc round box for light fittings). The socket to be mounted on the trunking or somewhere else in the ceiling void.	EACH	10.00	
<u>SWITCHES</u>				
<u>Supply, install and connect light switches in flush wall mounted boxes, complete with cover plates and all necessary accessories:</u>				
25	Supply and install 16A one lever one way light switch flush mounted on the wall	EACH	2.00	
26	Supply and install 16A two lever one way light switch flush mounted on the wall	EACH		
27	Supply and install 16A one lever two way light switch flush mounted on the wall	EACH		
28	Supply and install Day light switch/photocell	EACH	2.00	
<u>ISOLATORS</u>				
<u>Supply, install and connect isolators in flush wall mounted boxes or surface, complete with cover plates and all necessary accessories (Isolators to be mounted within one meter of the equipment to be controlled).</u>				
29	Supply and install 400V, 30A double pole isolator surface mounted on the wall for pump connections. Rates to include 4 inch x 4 inch extension box	EACH	8.00	
30	Supply and install 230V, 60A double pole isolator flush mounted in the wall for stove connection	EACH		
Carried Forward				R
Section No. 16 Bill No. 9 GUARDHOUSE- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward				R
31	Supply and install 230V, 30A double pole isolator mounted in the ceiling void for HVAC .Rates to include 4 inch x 4 inch extension box	EACH		
<u>LUMINAIRES</u>				
<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. All recessed light fittings should be supplied with 3m connection lead</u>				
32	Type A1 (1200mm long surface mounted open channel fluorescent light fitting complete with 2 x 28W T5 Lamps and Electronic control gear.	EACH	3.00	
33	Type C (Ceiling mounted 18W LED round bulkhead IP65 light fitting with 2 x 9W E27 Edison Screw LED Lamps, prismatic acrylic diffuser)	EACH	9.00	
34	Type D (Surface mounted 30W LED flood light fitting)	EACH	2.00	
35	Type A6 (1200 x 600mm recessed fluorescent light fitting complete with 3 x 28W T5 Lamp, double parabolic louvres and electronic control gear)	EACH		
36	Type R (Wall mounted round bulkhead IP65 c/w E27 20W red LED lmap, and electronic control gear and prismatic acrylic diffuser)	EACH		
<u>TELECOMMUNICATION AND DATA</u>				
37	RJ11 cover plate on the wall or Power skirting	EACH		
38	RJ45 cover plate on wall or Power skirting	EACH		
39	450mm x 300mm x 125mmdeep telephone wall box	EACH		
<u>TESTING AND COMMISSIONING</u>				
40	Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliances by an accredited person.		Item	
Carried Forward to Summary of Section No. 16				R
Section No. 16 Bill No. 9 GUARDHOUSE- ELECTRICAL INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No		Quantity	Rate	Amount
<u>SECTION 17 : ELECTRICAL ENGINEERING</u>				
<u>BILL NO 10 : EARTHING AND LIGHTNING PROTECTION: ELECTRICAL INSTALLATION</u>				
<u>LIGHTNING PROTECTION</u>				
1	Install 1,5m SABS Approved earthrods at a depth off 500mm below ground level	EACH	49.00	
2	70mm ² Insulated Copper wire	m	245.00	
3	Bond to test point as per drawing.	EACH	49.00	
4	Electrochemical /Exothermic connection	EACH	49.00	
5	Trenching in soft rock	m3	49.00	
6	PVC conduit 25mm diametre (flush mounted in the wall from the roof to the flush galvanised conduit box and from conduit box to the earth peg outside the building)	m	343.00	
7	105mm x 105 mm galvanized conduit box located 300 mm above finished floor level and fitted with blank PVC cover plates labelled "Earth Test Point".	EACH	49.00	
8	Conductive Cement	EACH	49.00	
9	Continuous 35 square mm round solid zinc coated copper strip secured to roof of building, including all clamps, joints and fixing accessories.	m	490.00	
10	10mm ² bare copper earth wire for interconnection of earth pegs	m	686.00	
Carried Forward to Summary of Section No. 16				
Section No. 16				
Bill No. 10				
EARTHING AND LIGHTNING PROTECTION				
Tshedimoso Elemental Estimate Rev02				
Stage 3 - Elemental Estimate				
				R

Item No		Quantity	Rate	Amount
<u>SECTION 17 : ELECTRICAL ENGINEERING</u>				
<u>BILL NO 11 : AREA AND SECURITY LIGHTING: ELECTRICAL INSTALLATION</u>				
<u>Supply and install area and security lights as indicated in drawings</u>				
1	Pole mounted flood light luminaire with 30W LED lamp mounted on a 8m high pole	EACH	16.00	
2	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 5 m for direct embedment in ground and complete with accessories including 2,5 mm ² internal wiring, BCEW, pole earthing and access cover. 4 x 30W flood lights to be mounted in one pole as indicated on the drawing	EACH	4.00	
<u>CABLES, CONDUCTORS & SLEEVES</u>				
3	6mm ² x 3 core PVC/SWA/PVC Alu cable (underground cables for post tops)	EACH	200.00	
<u>GLANDS AND SHROUDS</u>				
4	6mm ² x 3 core PVC/SWA/PVC Alu cable	EACH	8.00	
<u>LIGHTING CONTROL</u>				
5	Photocell	EACH	4.00	
6	32 A contactor switch with 240 V AC coil, enclosed in distribution enclosure and coupled to photocell.	EACH	4.00	
<u>CABLE MARKERS & WARNING TAPES</u>				
7	Cable warning tape	m	400.00	
<u>SUPPLY & INSTALL UPVC SLEEVES (Rate to include 2,5mm² draw wire)</u>				
8	50 diameter	m	60.00	
Carried Forward				
			R	
Section No. 16 Bill No. 11 AREA AND SECURITY LIGHTING Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

	Brought Forward			R
9	25mm	m	60.00	
	<u>TRENCHING AND EXCAVATIONS (450mm wide & 800mm deep), Rate to include backfilling, compacting and other necessary materials required for around the cables</u>			
10	Pickable soil	m3	72.00	
	<u>TESTING AND COMMISSIONING</u>			
11	Testing and commissioning and issuing of COC for the complete lighting installation		Item	
Carried Forward to Summary of Section No. 16				R
Section No. 16				
Bill No. 11				
AREA AND SECURITY LIGHTING				
Tshedimoso Elemental Estimate Rev02				
Stage 3 - Elemental Estimate				

Item No		Quantity	Rate	Amount
<u>SECTION 17 : ELECTRICAL ENGINEERING</u>				
<u>BILL NO 12 : INTERCOM INSTALLATION</u>				
The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.				
1	90 Way Intercom Controller Master Station. Must support or drive a minimum of 90 speakers.	m	1.00	
2	High quality, wall mount, indoor, intercom module complete with Speaker (10W) & microphone. The microphone must be very sensitive, able to clearly pick audio in a class environment when activated with no feedback	EACH	22.00	
3	Outdoor Intercom module complete with Horn Speaker (5-30W) & microphone. (IP66)	EACH	15.00	
4	School siren to be located in the admin block. The siren to be activated from three push button located in the strongroom, server room and security room (complete installation of 2 x siren with 3 push buttons and a timer)	m	1.00	
5	Paging console with Gooseneck microphone	EACH	1.00	
6	Terminal Box: Lockable, Flush mount with knockouts 300 x 400 x 140mm	EACH	2.00	
7	Main Termination Block	EACH	1.00	
8	4 pair, twisted, screened, 22swg cable	EACH	100.00	
9	10 pair, twisted, screened, 22swg cable	EACH	100.00	
10	20 pair, twisted, screened, 22swg cable	m	200.00	
11	25mm PVC conduiting and accessories	m	200.00	
12	110 sleeves	m	100.00	
Carried Forward				
			R	
Section No. 16 Bill No. 12 INTERCOM INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward

R

Testing and Commissioning

13 Testing and Commissioning of Installation

Item

14 Manuals, Documentation, AS Builts

Item

15 Training of Personnel

Item

Carried Forward to Summary of Section No. 16

R

Section No. 16

Bill No. 12

INTERCOM INSTALLATION

Tshedimoso Elemental Estimate Rev02

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SECTION SUMMARY - SECTION 17: ELECTRICAL ENGINEERING

Bill No		Page No	Amount
1	BULK SUPPLY & RETICULATION & ESKOM UPGRADE CONTRIBUTION	259	-----
2	BLOCK 1 : ADMIN BUILDING- ELECTRICAL INSTALLATION	265	-----
3	BLOCK 2 : DINNING ROOM & NUTRITION CENTRE- ELECTRICAL INSTALLATION	270	-----
4	BLOCK 3: MULTI MEDIA CENTRE- ELECTRICAL INSTALLATION	275	-----
5	BLOCK 4: GRADE R- ELECTRICAL INSTALLATION	280	-----
6	EXISTING CLASSROOMS BLOCK 1- ELECTRICAL INSTALLATION	285	-----
7	EXISTING CLASSROOMS BLOCK 2- ELECTRICAL INSTALLATION	290	-----
8	EXISTING ABLUTIONS- ELECTRICAL INSTALLATION	295	-----
9	GUARDHOUSE- ELECTRICAL INSTALLATION	300	-----
10	EARTHING AND LIGHTNING PROTECTION	301	-----
11	AREA AND SECURITY LIGHTING	303	-----
12	INTERCOM INSTALLATION	305	-----
Carried to Final Summary			R
Section No. 16 Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 18 : MECHANICAL ENGINEERING	Quantity	Rate	Amount
	<u>SECTION 1.1 - COMMISSIONING AND DOCUMENTATION (MECHANICAL INSTALLATIONS)</u>			
1	Preparation of O & M manuals and Commissioning reports	Item		
2	Preparation of shop drawings samples etc.	Item		
3	As Built Drawings In accordance to specification	Item		
4	Testing, Commissioning, Balancing & Handing over	Item		
5	Maintenance of complete installation for 12 months Supervision and Attendance	Item		
6	Engineering, Submissions & Approvals	Item		
7	Compliance with OHS specifications	Item		
8	Additional test required by Engineer	Item		
9	Training of End-user	Item		
	Carried Forward to Summary of Section No. 17			
	Section No. 17 Bill No. 1 COMMISSIONING & DOCUMENTATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate		R	

Item No	SECTION 18 : MECHANICAL ENGINEERING	Quantity	Rate	Amount
	<u>SECTION 1.2 - BILL 1 - HVAC SYSTEM</u>			
	upply, installation and setting of the following drawings			
	<u>HEAT PUMP MID WALL SPLIT UNIT INVERTER</u>			
	Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, proving to insurance inspectors, demonstrating to the Employer, commissioning and maintenance of the complete mechanical systems and equipment as shown on the drawings and datasheets.			
	Summary as follows:			
	<u>MIDWALL HEAT PUMP SPLIT UNITS</u>			
	Supply and install inverter type DX heat pump midwall units complete with fittings and fixtures, including insulated supply and return air plenum boxes, as specified and shown on the drawing			
	<u>Admin Block</u>			
1	[AC01]: Nominal Cooling Capacity : 18000Btu	No	1.00	
	Supply and install complete with all fixtures and appurtinancies for complete installation			
	<u>REFRIGERANT PIPING (R 410)</u>			
	Refrigerant pipes complete with thermal insulation, other fittings and fixtures, brackets, pressure tested and fully charged up with refrigerant in accordance with datasheets and specifications for the above.			
2	15.9mm dia	m	10.00	
3	12.7mm dia	m	10.00	
	Carried Forward			R
	Section No. 17 Bill No. 2 AIR CONDITIONING INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward			R
<u>CABLE RACK</u>			
<u>Supply and install cable rack for refrigerant piping c/w joints and fixtures and fittings.</u>			
4	200mm wide	m	
5	100mm wide	m	10.00
6	50mm	m	
<u>Supply PVC condensate pipes c/w joints and fixtures and fittings</u>			
7	50mm dia	m	
8	25mm dia	m	10.00
9	20mm dia	m	
<u>CONTROL UNITS</u>			
10	Supply and install remote control units as specified for all DX split air conditioning units.	No	1.00
<u>ELECTRICAL WORK</u>			
11	Supply and install electrical work including power and control cabling and connections as specified for the air conditioning units.		Item
<u>TEST & COMMISSION</u>			
12	Test and Commission the Entire Air conditioning system		SUM
13	Ditto but in the presence of and to the entire satisfaction of the Consulting Engineer.	No	1.00
Carried Forward to Summary of Section No. 17			R
Section No. 17			
Bill No. 2			
AIR CONDITIONING INSTALLATION			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 18 : MECHANICAL ENGINEERING</u>			
	<u>BILL 2 - FIRE PROTECTION INSTALLATION</u>			
	Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, proving to insurance inspectors, demonstrating to the Employer, commissioning and maintenance of the complete mechanical systems and equipment as shown on the drawings and datasheets.			
	<u>FIRE HOSE REELS</u>			
1	30m fire hose reel including pro-rata cost for 50mm connecting pipework from the fire reticulation main including 25 diameter drop pipe to hose reel and break ins, fittings, pipework, hanging/fixing materials, finished paintwork, pressure gauge, etc., as per detail on tender drawings.	No	5.00	
	<u>PIPEWORK</u>			
	Supply and install medium grade, seamless galvanized mild steel pipework c/w pipe supports and accessories as specified and shown on the drawings			
2	80mm dia	m	185.00	
3	65mm dia	m	120.00	
4	50mm dia	m	220.00	
5	32mm dia	m	90.00	
6	25mm dia	m	70.00	
	<u>SITE RETICULATION AND HYDRANTS</u>			
7	Supply and Install 110mm HDPE pipe c/w pipe supports and accessories as specified as per site drawing	m	450.00	
	Carried Forward			R
	Section No. 17 Bill No. 3 FIRE PROTECTION INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
8	Supply and Install 110 mm non-return valve	No	2.00	
9	Excavation of Trench and back filling with imported material	m	450.00	
<u>Extra Over for Fittings</u>				
10	110mm bend	No	50.00	
11	110mm Tee	No	50.00	
12	65mm bend	No	30.00	
13	65mm Tee	No	30.00	
<u>Tees and reducing tees</u>				
<u>GALVANISED</u>				
14	100 x 100 x 100mm	No	8.00	
15	100 x 80 x 100mm	No	8.00	
16	100 x 65 x 100mm	No	6.00	
17	80 x 80 x 80mm	No	2.00	
18	80 x 65 x 80mm	No	8.00	
19	65 x 65 x 65mm	No	8.00	
20	65 x 32 x 65mm	No	4.00	
21	65 x 25 x 65mm	No	12.00	
22	32 x 32 x 32mm	No	15.00	
23	32 x 25 x 32mm	No	10.00	
24	25 x 25 x 25mm	No	12.00	
Carried Forward				R
Section No. 17 Bill No. 3 FIRE PROTECTION INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

			Brought Forward		R
			<u>HDPE</u>		
25	100 x 100 x 100mm	No	8.00		
26	100 x 80 x 100mm	No	8.00		
27	100 x 65 x 100mm	No	6.00		
			<u>PORTABLE FIRE EXTINGUISHERS</u>		
28	5 kg DCP fire extinguishers complete with backboard mounted as required	No	1.00		
29	4,5 kg DCP fire extinguishers complete with backboard mounted as required	No	18.00		
30	5kg kg carbon dioxide extinguishers in weather proo polycarbonate cabinet complete with backboard mounted as required	No	5.00		
			<u>FIRE Extinguishers FIRE CABINETS</u>		
31	Supply and install weather proof steel cabinets for fire extinguishers	No	10.00		
			Carried Forward		R
Section No. 17					
Bill No. 3					
FIRE PROTECTION INSTALLATION					
Tshedimoso Elemental Estimate Rev02					
Stage 3 - Elemental Estimate					

Brought Forward				R
<u>STATUTORY FIRE SIGNAGE</u>				
Supply and install photo luminescent fire and evacuation signage as described below and as per the tender drawings:				
All signed to be framed in the natural anodized aluminium frame with mitred corner and concealed elbow joints.				
All wall mounted fire and evacuation signs to be fixed with concealed screws and no double sided tape will be permitted for the mounting of the signs.				
All suspended fire and evacuation signs to be hung from a steel cables or metal chains.				
All signage to be a minimum 190mm size.				
<u>All fire and evacuation signs to be SANS 1186-1, 1186-3 and 1186-5 approved, and also to bear the SANS stamp of approval.</u>				
32	E1/E2	No	10.00	
33	E2	No	10.00	
34	E3	No	8.00	
35	F15	No	10.00	
36	F45	No	8.00	
37	F4	No	8.00	
38	F5/F6	No	8.00	
<u>HYDRANTS, VALVES ETC.</u>				
39	100mm cast iron tamper proof hydrant valve	No	9.00	
40	"Chubb" 03451 pair of gunmetal instantaneous steamer connections fitted with caps and short lengths of chain, including U-tube and pressure gauge	No	9.00	
Carried Forward				R
Section No. 17 Bill No. 3 FIRE PROTECTION INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R	
41	100mm Tamper proof "Double - Booster" hydrant valve	No	2.00	
42	Provide 1200m x 80mm galvanised piping riser	No	9.00	
43	Provide hydrants with 15MPa concrete anchors	No	9.00	
<u>FIRE PUMP AND TANK</u>				
44	2.0l/s @ 450kPa Electrically Driven Primary Fire Pumps, one primary & one standby including a Jockey pump and all necessary suction / delivery pipe-work, valves, hanging material, control equipment, etc.		Item	
45	5.5l/s @ 450kPa Electrically Driven Primary Domestic water Pumps, one primary & one standby including all necessary suction / delivery pipe-work, valves, hanging material, control equipment, etc.		Item	Rate only
46	65mm Tank in-fill pipe-work from borehole including all necessary valves, boosters etc.	m	110.00	
47	40m ³ Hot dip galvanised Pannel tank complete with flanges, ball valves, as per tender drawings. The tank should be so fitted with level controllers that allows for separation of the domestic water and the fire fire water using levels strategy. The tank should have a access opening to allow for servicing		Item	
48	Pump Motor control for a complete automatic operation of the system			SUM
49	Electrical cabling between auto start arrangement, float level indicators, in- ball valves and pump room control panel, etc.			SUM
50	300 L Expansion Pressure tank		Item	
Carried Forward				R
Section No. 17 Bill No. 3 FIRE PROTECTION INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward				R
<u>Pipping inbetween water tank and Pumps</u>				
Supply deliver and instal HDPE pipping complete with fittings and ancillatires for a complete operating system with associated pipe-work fittings and materials in and around pump and tanks, in-fill pipe in-ball valves level indicators auto start arrangement etc. for completion of pump room.follows				
51	∅ 80mm	m	5.00	
52	∅ 65mm	m	5.00	
53	∅ 50mm	m	10.00	
<u>EIBows</u>				
54	∅ 80mm		Item	
55	∅ 65mm		Item	
56	∅ 50mm		Item	
<u>Tees</u>				
57	∅ 80mm		Item	
58	∅ 65mm		Item	
59	∅ 50mm		Item	
<u>Valves</u>				
<u>Gate valve</u>				
60	∅ 80mm		Item	
61	∅ 65mm		Item	
62	∅ 50mm		Item	
Carried Forward				R
Section No. 17 Bill No. 3 FIRE PROTECTION INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
	<u>None Return Valve</u>		
63	∅ 80mm	Item	
64	∅ 65mm	Item	
65	∅ 50mm	Item	
	<u>Strainers</u>		
66	∅ 80mm	Item	
67	∅ 65mm	Item	
68	∅ 50mm	Item	
	<u>Gauges</u>		
69	<u>100mm Dial Pressure Gauge</u>	Item	
70	0-600Kpa range	Item	
71	Pressure switches	Item	
Carried Forward to Summary of Section No. 17			
Section No. 17			R
Bill No. 3			
FIRE PROTECTION INSTALLATION			
Tshedimoso Elemental Estimate Rev02			
Stage 3 - Elemental Estimate			

Item No		Quantity	Rate	Amount
	<u>SECTION 18 : MECHANICAL ENGINEERING</u>			
	<u>BILL 4 - LP GAS INSTALLATION</u>			
	* "Rate" includes material, delivery & installation labour.			
	<u>Nutrition Centre/Dinning Hall</u>			
	The supply, delivery, installation and commissioning of equipment as per the requirements of SANS 10087-1 for LPG gas installation			
	<u>Nutrition Centre/Dinning Hall</u>			
	<u>Schedule 40 black steel piping complete with fittings, brackets and welded joints.</u>			
1	15mm dia nominal bore	m	15.00	
2	22mm dia nominal bore	m	10.00	
3	25mm dia nominal bore	m	30.00	
	<u>LPG Gas Quality Isolating Valve</u>			
4	10mm dia nominal bore	No	1.00	
5	25mm dia nominal bore	No	7.00	
6	Low Pressure regulator	No	1.00	
	<u>LPG Gas Quality Flexible Hose Connector</u>			
7	10mm dia nominal bore	No	1.00	
8	25mm dia nominal bore	No	6.00	
	<u>Trunking</u>			
9	100 x 50 Epoxy powder coated trunking.	m	30.00	
	Carried Forward			R
	Section No. 17 Bill No. 4 LPG INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
<u>Supply and Install 2x2 48kg LPG right and left Cylinders, Manifold and Ancillary Equipment as per Tender Drawing:</u>				
10	2x2 Cylinder Manifold		Item	
11	Supply 48kg Cylinders		Item	
<u>Fittings</u>				
<u>Reducers</u>				
12	25 -15 mm dia nominal bore	No	10.00	
13	15 -10 mm dia nominal bore	No	3.00	
<u>Bends</u>				
14	25 mm dia nominal bore	No	10.00	
15	15 mm dia nominal bore	No	5.00	
<u>Tees</u>				
16	25mm dia nominal bore	No	5.00	
<u>Valve Box</u>				
Isolating valve box including valves, instrumentation, identification labelling, etc				
17	Valve Cabinets with one Diameter 25mm Isolating valve.	No	1	
<u>PRESSURE REGULATOR</u>				
<u>FIRST STAGE PRESSURE REGULATOR</u>				
Supply, deliver, off-load, store on site and install First Stage				
Pressure regulator for a maximum gas				
18	demand of 750 000kJ/hr	No	1.00	
Carried Forward				R
Section No. 17 Bill No. 4 LPG INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
19	1800x800mm Steel Diamond Steel mesh hot dip galvanised locable cage/enclosure with roof, pad lock, no-unauthorised personnel, no-smoking sign, no cellphone sign	Item	
20	Colour coding	Item	
Carried Forward to Summary of Section No. 17			R
Section No. 17 Bill No. 4 LPG INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Item No	SECTION 18 : MECHANICAL ENGINEERING	Quantity	Rate	Amount
	<u>SECTION 1.5 - BILL 1 - COLD ROOM SYSTEM</u>			
	* "Rate" includes material. delivery & installation labour.			
1	570L Chest Freezer	No	3.00	
2	570 L Fridge	No	2.00	
	<u>Galvanised shelves</u>			
3	3 tier		Item	
4	2 tier		Item	
Carried Forward to Summary of Section No. 17				
Section No. 17				R
Bill No. 5				
REFRIGERATION INSTALLATION				
Tshedimoso Elemental Estimate Rev02				
Stage 3 - Elemental Estimate				

Item No	SECTION 18 : MECHANICAL ENGINEERING	Quantity	Rate	Amount
	<p><u>SECTION 1.1 - BILL NO. 5B: KITCHEN EQUIPMENT (MECHANICAL INSTALLATIONS)</u></p> <p>Supply, install and commission the following Kitchen Equipment as per the Technical specification</p> <p>* "Rate" includes material. delivery & installation labour.</p> <p><u>Nutrition Centre</u></p>			
1	3 Burner gas stove 118,000 kj/hr, Floor Standing.	No	2.00	
2	25L Hot water Urn	No	2.00	
	<p>Carried Forward to Summary of Section No. 17</p> <p>Section No. 17 Bill No. 6 KITCHEN & LAB INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate</p>			R

Item No		Quantity	Rate	Amount
	<u>SECTION 18 : MECHANICAL ENGINEERING</u>			
	<u>SECTION 1.7 - BILL NO. 7: KITCHEN EQUIPMENT KITCHEN CANOPY (MECHANICAL INSTALLATIONS)</u>			
	Supply, install and commission the following Equipment as per the Technical specification			
	* "Rate" includes material. delivery & installation labour.			
	<u>Kitchen Canopy</u>			
	Inline duct mounted fan installed complete with matching sound attenuators on either side of the fan.			
1	47: Diameter 710 Fan delivering 1980 l/s against 150 pa @ 1440rpm.	No	2.00	
	<u>Uninsulated galvanised steel sheet metal supply air ducting complete with support brackets.</u>			
	<u>450mm Diameter Ducting</u>			
2	Duct	m	10.00	
3	Duct with 45 degree cut-outt and Vremin-proof Wiremesh	No	1.00	
4	Canvass flexible	No	2.00	
5	Bend	No	6.00	
	<u>500mm Diameter Ducting</u>			
6	Duct	m	5.00	
7	Duct with 45 degree cut-outt and Vremin-proof Wiremesh	No	1.00	
8	Canvass flexible	No	2.00	
	Carried Forward			R
	Section No. 17 Bill No. 7 EXTRACTION CANOPY INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward		R
9	Bend	No	3.00	
	<u>Stainless steel Extraction Canopy with support brackets, Filters, Fire Dampers, Drip trays etc.As follows: Refer to detail drawings/ working drawings</u> Nutrition Kitchen/Hall			
10	3100x750 Canopy of 09mm 430 stainless steel with a no 4 satin finish. Canopy to have 4 x 495l/s inertia filters. Fan capacity as follows: 1980l/s@ 150Pa	No	1.00	
	<u>CONTROLLER FOR KITCHEN CANOPY</u> <u>Supply and install a stop start controller for Kitchen Canopy as specified.</u>			
11	Nutrition Center/Hall	No	1.00	
Carried Forward to Summary of Section No. 17				R
Section No. 17 Bill No. 7 EXTRACTION CANOPY INSTALLATION Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Item No		Quantity	Rate	Amount
	<u>SECTION 18 : MECHANICAL ENGINEERING</u>			
	<u>SECTION 1.8 - BILL NO. 8: HOT WATER GENERATION & DISTRIBUTION (MECHANICAL INSTALLATIONS)</u>			
	The supply, delivery, installation and commissioning of equipment as shall be detailed in this schedule. Tenderers are referred to The Technical specification for the Domestic Hot and Cold Water Installation.			
	<u>COPPER PIPE</u>			
	<u>Class 0 copper water piping in accordance with SANS 460 installed complete with short lengths, cutting, plain couplings, capillary solder and jointing strictly in accordance with the Manufacturer's instructions, support brackets etc.</u>			
	<u>Pipe lengths:</u>			
	(Including hangers, brackets, welding, mountings, flanges, gaskets, connectors, bolts, nuts, washers, anchors, joining connectors, etc.)			
1	dia 15	m	105.00	
2	dia 22	m	135.00	
3	dia 28	m	20.00	
	<u>Bends:</u>			
	(Including hangers, brackets, welding, mountings, flanges, gaskets, etc.)			
4	dia 15	m	75.00	
5	dia 22	m	75.00	
6	dia 28	m	20.00	
	Carried Forward			R
	Section No. 17 Bill No. 8 WET SERVICES INSTALLATION HOT WATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
<u>Tees:</u>				
Extra over copper piping for capillary fittings in accordance with SANS - 2 complete with hangers, brackets, soldering , etc.				
7	dia 15-15-15	m	55.00	
8	dia 22-22-22	m	55.00	
9	dia 28-28-28	m	7.00	
<u>Reducers</u>				
Extra over copper piping for capillary fittings in accordance with SANS - 2 complete with hangers, brackets, soldering , etc.				
10	dia 22 - 15	No	35.00	
11	dia 28 - 22	No	35.00	
<u>Isolating valves:</u>				
Ball type Isolating Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions and complying to SANS 1056 - 3				
12	dia 15	No	33.00	
13	dia 22	No	24.00	
14	dia 28	No	6.00	
<u>Non return valves:</u>				
Lift type Non Return Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions.				
15	dia 22	No	4.00	
Carried Forward				R
Section No. 17 Bill No. 8 WET SERVICES INSTALLATION HOT WATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward				R
<u>Pressure Relief Valves:</u>				
Specified Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions.				
16	dia 22	No	4.00	
<u>Air Relief Valves:</u>				
Specified Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions.				
17	dia 22	No	5.00	
<u>Vacuum Breaker:</u>				
Specified Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions.				
18	dia 22	No	4.00	
<u>Strainers:</u>				
Specified Strainer complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions.				
19	dia 22	No	4.00	
20	dia 28	No	1.00	
21	dia 32	No	1.00	
<u>Pipe Mounted Measuring Port</u>				
22	Specified pipe mounted temperature measuring port complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions.		No	3.00
Carried Forward				R
Section No. 17 Bill No. 8 WET SERVICES INSTALLATION HOT WATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward				R
<u>Pipe Insulation</u>				
25 mm thick snap-on preformed glass fibre insulation a density of 80 kg/m3 covered with cloth wrapp.				
23	dia 15	m	25.00	
24	dia 25	m	30.00	
25	dia 22	m	15.00	
26	dia 28	m	15.00	
<u>Pipe Insulation (Exposed piping)</u>				
25 mm thick snap-on preformed glass fibre insulation with a density of 80 kg/m3 and covered with 0.5mm thick galvanised sheet metal cladding.				
27	dia 25	m	16.00	
28	dia 22	m	16.00	
29	dia 28	m	15.00	
<u>Insulation to fittings (plastered finish) including T's, bends, reducers, valves, etc.</u>				
30	dia 22	No	28.00	
31	dia 28	No	8.00	
<u>Pipe hangers:</u>				
Complete with angle irons, hangers, rods, chains/rods, brackets, anchors/fasteners, welding, mountings, flanges, gaskets, bolts, nuts, washers, etc.				
<u>Pipe hangers:(Ceiling or Truss Mounted)</u>				
32	dia 108 to 15 Two Pipe Support.	No	13.00	
33	dia 108 to 15 Single Pipe Support.	No	13.00	
Carried Forward				R
Section No. 17 Bill No. 8 WET SERVICES INSTALLATION HOT WATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward				R
<u>Solar Geyser With Electric Back up rated 3Kw</u>				
34	150 Liter	No	1.00	
35	200 Liter	No	2.00	
36	Adjustable inclined roof Mounting Bracket set at 36 degree to te horizontal and facing North	No	3.00	
Carried Forward to Summary of Section No. 17				R
Section No. 17				
Bill No. 8				
WET SERVICES INSTALLATION HOT WATER				
Tshedimoso Elemental Estimate Rev02				
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Item No		Quantity	Rate	Amount
	<u>SECTION 18 : MECHANICAL ENGINEERING</u>			
	<u>SECTION 1.1 - BILL NO 1,9: COLD WATER RETICULATION (MECHANICAL INSTALLATIONS)</u>			
	The supply, delivery, installation and commissioning of equipment as shall be detailed in this schedule. Tenderers are referred to The Technical specification for the Domestic Hot and Cold Water.			
	<u>PE-Xa: Cross-linked Polyethylene Piping</u>			
	<u>Cross-linked Polyethylene Water Piping in accordance with DIN 16892 with thermal memory effect. Piping shall be installed complete with short lengths, cutting, plain couplings and jointing strictly in accordance with the Manufacturer's instructions, support brackets etc.</u>			
	<u>Pipe lengths:</u>			
	(Including hangers, brackets, jointing, joining connectors, etc. Piping to be extruded complete with colour coding as per Gauteng DID Specifications)			
1	dia 15	No	230	
2	dia 22	No	80	
3	dia 28	No	80	
4	dia 35	No	40	
5	dia 42	No	20	
6	dia 54	No	85	
	<u>Bends:</u>			
	(Including hangers, brackets, welding, mountings, flanges, gaskets, etc.)			
7	dia 15	No	350	
	Carried Forward			R
	Section No. 17 Bill No. 9 WET SERVICES INSTALLATION COLD WATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward		R
8	dia 22	No	140	
9	dia 28	No	110	
10	dia 35	No	50	
11	dia 42	No	45	
12	dia 54	No	90	
	<u>Tees:</u>			
13	dia 15	No	350	
14	dia 22	No	140	
15	dia 28	No	110	
16	dia 35	No	50	
	<u>Reducers</u>			
	(Including hangers, brackets, jointing, joining connectors, etc. Piping to be extruded complete with colour coding as per Gauteng DID Specifications)			
17	dia 15	No	160	
18	dia 22	No	110	
19	dia 28	No	100	
20	dia 35	No	90	
21	dia 42	No	90	
22	dia 54	No	55	
	<u>Isolating valves:</u>			
	Ball type Isolating Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions and complying to SANS 1056 - 3			
	Carried Forward			R
	Section No. 17 Bill No. 9 WET SERVICES INSTALLATION COLD WATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

		Brought Forward		R
23	dia 12	No	45	
24	dia 15	No	120	
25	dia 22	No	80	
26	dia 28	No	10	
27	dia 35	No	10	
28	dia 42	No	10	
29	dia 54	No	10	
30	dia 76	No	10	
<u>Non return valves:</u>				
Lift type Non Return Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions.				
31	dia 15	No	1	
32	dia 22	No	10	
33	dia 28	No	10	
34	dia 35	No	10	
35	dia 42	No	10	
36	dia 54	No	10	
37	dia 76	No	10	
<u>Balancing Valves:</u>				
Specified Balancing Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions.				
38	dia 22	No	5	
Carried Forward				R
Section No. 17 Bill No. 9 WET SERVICES INSTALLATION COLD WATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate				

Brought Forward			R
<u>Flexible Connection:</u>			
(Including hangers, brackets, jointing, joining connectors, etc. Piping to be extruded complete with colour coding as per Gauteng DID Specifications)			
39	Flexible braided connection 15mm dia [300mm long]	No	92
<u>Pipe Insulation (Exposed piping)</u>			
25 mm thick snap-on preformed glass fibre insulation with a density of 80 kg/m ³ and covered with 0.5mm thick galvanised sheet metal cladding.			
40	dia 15	m	20
41	dia 22	m	20.00
42	dia 28	m	20.00
43	dia 35	m	20.00
<u>Pipe Insulation (Exposed piping)</u>			
25 mm thick snap-on preformed glass fibre insulation with a density of 80 kg/m ³ and covered with 0.5mm thick galvanised sheet metal cladding.			
44	dia 22	m	72.00
45	dia 28	m	40.00
46	dia 35	m	20.00
<u>Pipe hangers:</u>			
47	dia 42 to 15 Single Pipe Support (Wall Mounted).	No	95
<u>Cable tray for pipe including installation, complete with 41mm galvanised uni-strut type channel and 10mm galvanised threaded rods.</u>			
48	300x100	m	305.00
Carried Forward			R
Section No. 17 Bill No. 9 WET SERVICES INSTALLATION COLD WATER Tshedimoso Elemental Estimate Rev02 Stage 3 - Elemental Estimate			

Brought Forward				R
49	150x100	m	45	
<u>Connection to site water reticulation</u>				
<u>Isolation Valves: Gate type valve</u>				
50	dia 15	No	20.00	
51	dia 22	No	15.00	
52	dia 28	No	36.00	
53	dia 35	m	30.00	
<u>Non return valves:</u>				
54	dia 22	No	10.00	
55	dia 28	No	21.00	
56	dia 35	m	15.00	
<u>Pressure Reducing Valve</u>				
57	dia 22	No	5.00	
58	dia 28	No		Rate Only
59	dia 35	m		Rate Only
60	dia 42	m		Rate Only
61	dia 54	m		Rate Only
62	dia 65	No	2.00	
63	Borehole submissible pumps	No	1.00	
Carried Forward to Summary of Section No. 17				R
Section No. 17				
Bill No. 9				
WET SERVICES INSTALLATION COLD WATER				
Tshedimoso Elemental Estimate Rev02				
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