

C.2.2.A: CIVIL WORKS – BOQ

21210CG: UPGRADING OF A MULTI-PURPOSE RUGBY- AND SOCCER FACILITY IN HEIDELBERG
C2.2 BILLS OF QUANTITIES

SCHEDULE A: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
A	SANS 1200 A	PRELIMINARY AND GENERAL As specified in SANS 1200A and in the project specifications					
A.1	8.3	FIXED CHARGES AND VALUE RELATED ITEMS					
A.1.1	PSA 8.3.1	Fixed preliminary and general charges	Sum	1			
A.1.2	PSA 8.3.2	Value related preliminary and general charges	Sum	1			
A.1.3		Extra-over item A.1.2 above for an <u>additional</u> re-establishment	No	1			
A.1.4		Extra-over item A.1.2 above for an <u>additional</u> de-establishment	No	1			
A.1.5		1 x Name Board	Sum	1			
	PSA 8.4	SCHEDULED TIME RELATED ITEMS					
A.1.6	PSA 8.4.1	Time related preliminary and general charges	Sum	1			
A.1.7		1 x Name Board maintain until end of defects liability period	Sum	1			
	PSA 8.5	SUMS STATED PROVISIONALLY BY THE ENGINEER					
	PSA 8.5.1	Work executed by the Contractor					
A.1.8		a) Electrical Work	Prov Sum	1	10,000.00	10,000	00
A.1.9		b) Charge required by Contractor for sub-item (a) above	%	10,000			
		c) Connection to existing services	Prov Sum	1	20,000.00	20,000	00
		d) Charge required by Contractor for sub-item (c) above	%	20,000			
	PSA 8.6	PRIME COST SUMS					
A.1.10		a) Cost of testing	PC Sum	1	15,000.00	15,000	00
A.1.11		Charges on prime cost	%	15,000			
TOTAL CARRIED FORWARD							

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SCHEDULE A: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
BROUGHT FORWARD							
A.2	PSA 8.7	DAYWORKS: Plant (rates include overheads, charges and profits)					
A.2.1		Digger loader with minimum capacity of 50kW Labour (rates including overheads, charges and profit)	h	20			
A.2.2		Skilled labour	h	40			
A.2.3		Semi-skilled labour	h	40			
A.2.4		Unskilled labour	h	40			
A.3	PSA 8.8	TEMPORARY WORKS					
A.3.1	PSA 8.8.2	Accommodation of traffic	Sum	1			
	PSA 8.8.4	Location and protection of existing services					
	PSA 8.8.4.1	Provision of detection devices for:					
A.3.2		a) Existing services	Sum	1			
	PSA 8.8.7	Dealing with water:					
A.3.3		a) Dealing with sub-surface water	Sum	1			
A.3.4		b) Dealing with surface water	Sum	1			
A.3.5	PSA 8.12	Cost of adhering to the Health & Safety Specifications as included in particular specification PES	Sum	1			
TOTAL CARRIED FORWARD TO SUMMARY							

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SCHEDULE B: SITE CLEARANCE

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
B		SITE CLEARANCE As specified in SANS 1200 and in the project specifications CLEAR SITE					
B.1	PSC 8.2.1	Clear and grub:					
B.1.1	8.2.10	Remove and stockpile on site topsoil to a nominal depth of 150mm	m ²	9,200			
B.1.2		Remove and dispose of existing brick walls with average height of 500mm	m	110			
B.1.3		Remove and dispose of existing brick walls with average height of 1m	m	50			
TOTAL CARRIED FORWARD TO SUMMARY							

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SCHEDULE C: EARTHWORKS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
C	SANS 1200 DM	EARTHWORKS					
		As specified in SANS 1200 DM and in the project specifications					
C.1		Soccer field and netball court					
	8.3.2	Remove topsoil to a depth specified by the Engineer (100mm) and stockpile on site.	m ³	1,050			
		Extra over item D.1.1 for removing topsoil from site and dispose at site designated by the contractor	m ³	210			
	PS DM 8.3.3	Treatment of roadbed:					
C.1.1		Roadbed preparation and compaction of material to:					
C.1.2		Minimum of 93% of Mod AASHTO maximum density to 150 mm depth					
		a) Area for new netball courts	m ²	780			
C.1.3		b) Area for new soccer/rugby field (including shaping area with 1% slope as per contract drawings) Maximum ±15mm tolerance allowed at any location on the field	m ²	9,200			
C.1.4	PS DM 8.3.4	Cut to Fill, Borrow to Fill, Commercial source to Fill (schedule separately)					
C.2		a) Cut to fill	m ³	230			
		b) Commercial to fill - G9 or better	m ³	1,000			
C.2.1	8.3.6	Extra over PS 8.3.4 for excavating and breaking down material in (there will be no differentiation between soft and intermediate excavation):					
		Hard rock excavation	m ³	20			
C.2.2	8.3.7	Cut to spoil at site designated by the contractor (Soft and intermediate)	m ³	10			
C.3	SABS 1200 D	Services					
	8.3.8.2	Dealing with services that are at risk because of the construction of earthworks:					
C.3.1		a) Cables	Sum	1			
TOTAL CARRIED FORWARD							

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SCHEDULE C: EARTHWORKS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
BROUGHT FORWARD							
C.3.2		b) Foul sewer lines	Sum	1			
C.3.3		c) Water main lines	Sum	1			
TOTAL CARRIED FORWARD TO SUMMARY							

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C2.2 BILLS OF QUANTITIES

SCHEDULE D: WATER RETICULATION AND ERF CONNECTIONS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
D		WATER RETICULATION AND ERF CONNECTIONS					
		IRRIGATION RETICULATION AND MAIN CONNECTION					
	SABS 1200 DB	EARTHWORKS (PIPE TRENCHES)					
D.1	8.3.2	EXCAVATION					
	PS DB 8.3.2(a)	Excavate in all materials for trenches, select, backfill, compact and dispose of all surplus material for main pipes with (inclusive of intermediate excavation):					
		Dia up to 75 mm for depths:					
		Over and Up to					
D.1.1		0,5 m 1,0 m	m			Rate Only	
D.1.2		1,0 m 1,5 m	m	125			
	PS DB 8.3.2(a)	Excavate in all materials for trenches, select, backfill, compact and dispose of all surplus material for erf connections with (inclusive of intermediate excavation):					
		Dia up to 50 mm for depths:					
		Over and Up to					
D.1.3		0,5 m 1,0 m	m	672			
D.1.4		1,0 m 1,5 m	m			Rate Only	
	8.3.2(b)	Extra-over items 8.3.2(a) for:					
D.1.5		Intermediate excavation	m ³	5			
D.1.6	PS DB 8.3.2(c)	Excavate unsuitable material for trench bottom	m ³	10			
D.1.7	PS D 8.3.8.1(c)	Hand excavation to expose existing services	m ³	5			
D.2	8.3.3	EXCAVATION ANCILLARIES					
	8.3.3.1	Make up deficiency in backfill material					
D.2.1	PS DB 8.3.3.1	From commercial sources (G7)	m ³	5			
D.2.2	8.3.3.1	From other necessary excavations on site	m ³	5			
TOTAL CARRIED FORWARD							

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C2.2 BILLS OF QUANTITIES

SCHEDULE D: WATER RETICULATION AND ERF CONNECTIONS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
BROUGHT FORWARD							
D.2.3	PS DB 8.3.3.3	Compaction in road reserves	m³				
	8.3.3.4	Overhaul Exstra over on items PS DB 8.3.2(a) inclusive of truck haul for dumping of unsuitable material to a dump site determined by the contractor (Provisional Quantity)	m³	10			
D.3	8.3.5	EXISTING SERVICES					
	PS DB 8.3.5(a)	Services that intersect a trench					
D.3.1		Water	No	1			
D.3.2		Sewer	No	1			
	PS DB 8.3.5(b)	Services that adjoins a trench					
D.3.3		Water	m	10			
D.3.4		Sewer	m	5			
D.3.5		Reinstate road surfaces complete with all layerworks (coarses):					
		Asphalt roads	m²	10			
TOTAL CARRIED FORWARD TO SUMMARY							

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SCHEDULE E: SOCCER/RUGBY FIELD TURF

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
E	SANS 1200 D	SOCCER/RUGBY FIELD TURF As specified in SANS D and in the project specifications					
E.1	PS D 8.3.10	Topsoil					
E.1.1	(LI)	Import and spread weed free fertilized topsoil from commercial source. The soil grading and chemical properties of imported soil prior mixing with existing topsoil must comply as specified under PS D 8.3.10. The imported soil must have a minimum of 2% organic material. A maximum tolerance of +/-15mm is allowed at any location on the field	m ³	460			
E.1.2	(LI)	Extra over item E.1.1 for blending existing topsoil with imported topsoil (unit of measure is cubes of existing topsoil blended into imported topsoil, no additional squares to be paid under item E.1.1)	m ³	460			
E.2		Turf					
E.2.1	(LI)	Planting of weed-free Kikuyu grass sods	m ²	9,200			
E.2.1	(LI)	Sowing of grass seed (45 Kg/hectar) and protection of such until germination	m ²	6,600			
E.2.2	PS D 8.3.21 (LI)	a) 50/50 weed free riversand and chicken manure lawndressing (or similar approved compost) mix 25 mm thickness, from commercial sources	m ²	9,200			
E.3		Maintenance					
E.3.1	PS D 8.3.22 (LI)	Cut the grass on a weekly basis to a height of 25mm (removal of cuttings not required)	month	12			
E.3.2	PS L 8.3.30	Inspect and repair/maintain irrigation system installed under the contract (inspect once per month and attend to faults reported by the client)	month	12			
E.3.3	PS D 8.3.21 (LI)	a) 50/50 weed free riversand and chicken manure lawndressing (or similar approved compost) mix 25 mm thickness, from commercial sources to be applied once during 1-year maintenance period	mm ²	9,200			
TOTAL CARRIED FORWARD TO SUMMARY							

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SCHEDULE F: NETBALL COURT

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
F		SUNDRIES					
F.1		UPGRADING AND REPAIR OF EXISTING NETBALL COURTS					
		Site Preparation					
F.1.1		Apply "round-up" or similar approved weed killer as per manufacturers specifications	Sum	1			
F.1.2		Treat all surface areas with an anti-fungi chemical	Sum	1			
F.1.3		Clean court surface thoroughly, by using a high pressure water jet, to remove all dirt and algee (including all cracks and expansion joints)	Sum	1			
F.1.4		Neatly and carefully remove all cement/concrete and other foreign material from the court surfaces, that was previously used to temporarily repair cracks on the court surfaces	Sum	1			
		Supply and Construct: Repair courts					
F.1.5		(1) Filling up of cracks and expansion joints with ABE duraflex or similar approved	Sum	1			
F.1.6		(3) Levelling of existing outside areas of the courts, to match the level of the existing asphalt layer	Sum	1			
		Paint work :					
F.1.7		Painting of repaired courts with Duruflex roofguard or similar approved	m ²	1,940			
F.1.8		Painting of netball lines using high quality non skid acrylic paint	Court	3			
		<u>Notes on the above items:</u>					
		Rates must include all labour, plant, material and any other item the Contractor feels fit to successfully complete each operation individually					
F.2		NEW NETBALL COURTS SURFACE COATING					
		Supply of repair material only:					
F.2.1		(1) Resin-DM4, Revertex 6414 Emulsion	ℓ	475			
TOTAL CARRIED FORWARD							

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SCHEDULE F: NETBALL COURT

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
BROUGHT FORWARD							
F.2.2		(2) Pigment (Green)	kg	35			
F.2.3		(3) Pigment (Red)	kg	55			
F.2.4		(4) Course clean sand	kg	2,800			
F.2.5		(5) Malmesbury course sand	kg	700			
F.2.6		(6) Colas 60 Bitumen binder	ℓ	350			
F.2.7		(7) Cement	kg	210			
F.2.8		(8) Quarry crusher material/dust	kg	700			
F.2.9		(9) Consul silicas sand	kg	1,310			
F.2.10		(10) Fibre thermoguard	kg	27			
F.2.11		(11) Crushed stone (6mm)	kg	175			
F.2.12		(12) Premixed asphalt (pavement mix max 6,7mm sieve size)	kg	55			
		(13) Acrylic paint					
F.2.13		- White	ℓ	7			
F.2.14		- Yellow	ℓ	5.5			
		Supply and construct 6 layers off : (Labour only)					
F.2.15		- 2 Layers course sand mixture	m²	780			
F.2.16		- 2 Layers consul silica sand	m²	780			
F.2.17		- 2 Coats of red or green pigmented acrylic mixture (Iron pigment)	m²	780			
		Paint work : (Labour only)					
F.2.18		Painting of netball lines using high quality non skid acrylic paint	Sum	1			
		Notes on the above items:					
		Rates must include all labour, plant, material and any other item the Contractor feels fit to successfully complete each operation individually					
TOTAL CARRIED FORWARD TO SUMMARY							

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SCHEDULE G: FENCING

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
G.1	PA	FENCING					
G.1.1	PA 07	Supply and erect pre-cast brown pebble vibacrete wall as per specifications. Wall must be 2100mm high with posts cast into 15 Mpa concrete foundations. Rate all inclusive. Allow for stormwater ponds as required.	m	185			
G.1.2		Supply and install 5m high ball deflection fence. 6mx76mmx2mm hot dipped galvanized poles with 60mm (dia) x 2mm hot dipped galvanized top rail. Two strands of 5mm hot dipped galvanized cable. 45mm (dia) x 45mm green high density polythylene netting. Concrete footings 600x600x100mm	m	140			
G.1.3	PA 08	Design, supply and install 6000mm x 2.1m high manual galvanized metal sheet sliding gate with minimum 50 x 50 x 5mm square tube frame, for vehicle access, complete with rails and posts. (Contractor to provide shop drawings for approval before manufacturing)	No	2			
TOTAL CARRIED FORWARD TO SUMMARY							

21210CG: UPGRADING OF A MULTI-PURPOSE RUGBY- AND SOCCER FACILITY IN HEIDELBERG
C2.2 BILLS OF QUANTITIES

SCEDULE H: STORMWATER AND SUBSURFACE DRAINAGE

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
H		STORMWATER AND SUBSURFACE DRAINAGE					
	SABS 1200 DB	EARTHWORKS (PIPE TRENCHES)					
H.1	8.3.2	EXCAVATION					
	PS DB 8.3.2(a)	Excavate in all materials for trenches, select, backfill, compact and dispose of all surplus material for:					
		Up to 375 mm dia pipes for depths:					
		Over and Up to					
H.1.1		1,0 m 1,5 m	m	5			
	8.3.2(b)	Extra-over items 8.3.2(a) for:					
H.1.2		Intermediate excavation	m ³	1			
H.1.3		Hard rock excavation	m ³	1			
H.1.4	PS DB 8.3.2(c)	Excavate unsuitable material for trench bottom	m ³	1			
H.1.5	PS DB 8.3.2(c)	Hand excavation and backfill	m ³	1			
H.2	8.3.3	EXCAVATION ANCILLARIES					
	8.3.3.1	Make up deficiency in backfill material					
H.2.1	PS DB 8.3.3.1	From commercial sources (Gravel G7)	m ³			Rate Only	
H.2.2	8.3.3.1	From other necessary excavations on site	m ³	1			
H.2.3	PS DB 8.3.3.3	Compaction in road reserves	m ³	1			
	8.3.3.4	Overhaul					
H.2.4		Extra over on items PS DB 8.3.2(a) inclusive of truck haul for dumping of unsuitable material to a dump site determined by the contractor (Provisional Quantity)	m ³	1			
TOTAL CARRIED FORWARD							

21210CG: UPGRADING OF A MULTI-PURPOSE RUGBY- AND SOCCER FACILITY IN HEIDELBERG
C2.2 BILLS OF QUANTITIES

SCEDULE H: STORMWATER AND SUBSURFACE DRAINAGE

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
BROUGHT FORWARD							
H.3	SABS 1200 LB	BEDDING (PIPES)					
	8.2.2	Supply only of bedding by importation					
	8.2.2.3	Provision of bedding material compacted to 93% of MAASHTO density (100% for sand) with material from commercial sources					
H.3.1		Selected granular material	m³	1			
H.3.2		Selected fill material	m³	3			
H.4	SABS 1200 LE	PIPES					
	8.2.1	Supply, handle and lay, spigot and socket type concrete pipes on a Class C bedding					
H.4.1		375 mm dia D100	m	5			
	PS LE 8.2.4	Extra-over item LE 8.2.1 for cutting end units for culverts on site					
H.4.2		375 mm dia	No	1			
H.5		SUNDRIES					
H.5.1		Construct Terraforce retaining wall as per detail dwg STE/Struc-10. Including all labour plant and meterial.	m²	10			
H.5.2		Construct stormwater outlet structure as per dwg STE/SW-77. Rate must include all labour, plant and material.	No	1			
H.5.3		Mass concrete (25 MPa)	m³	1			
H.6		EXISTING SERVICES					
		Service that intersect a trench					
H.6.1		Water pipe	No	1			
H.6.2		Electrical cable	No	1			
TOTAL CARRIED FORWARD TO SUMMARY							

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SCHEDULE I: MISCELLANEOUS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
I		MISCELLANEOUS					
I.1	PA	Extra Works					
I.1.1		Supply and install of new soccer/rugby combination goal posts to national standard dimensions, 101mm/57mm galvanized and painted with ground sleeves and UV protected netting	No	2			
I.1.2	(LI)	Lime lines to National Department of Sport and Recreation Specification for soccer fields	m				
I.1.3	(LI)	Concrete block retaining wall as per drawing STE/STRUC-01	m ²	20			
I.1.4	(LI)	Open stormwater V-channel (0,15 m) deep and 0.5m wide with 1:5 side slopes and 1% min longitudinal slope	m	200			
I.2		Sprinkler System					
		Sum stated provisionally by Engineer					
	PS A 8.5.2	Design, supply and installation work executed by selected sub-contractor:					
I.2.1		a) Automated underground irrigation system for soccer field	Prov Sum	1			
I.2.2		Charges on prime cost	%	500,000.00			
TOTAL CARRIED FORWARD TO SUMMARY							

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SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
A	PRELIMINARY AND GENERAL
B	SITE CLEARANCE
C	EARTHWORKS
D	WATER RETICULATION AND ERF CONNECTIONS
E	SOCCER/RUGBY FIELD TURF
F	NETBALL COURT
G	FENCING
H	STORMWATER AND SUBSURFACE DRAINAGE
I	MISCELLANEOUS
TOTAL CARRIED FORWARD TO SUMMARY OF SCHEDULES	

C.2.2.A: CIVIL WORKS - SUMMARY

<i>SUB SECTION</i>	<i>DESCRIPTION</i>	<i>AMOUNT</i>
A	PRELIMINARY AND GENERAL	
B	SITE CLEARANCE	
C	EARTHWORKS	
D	WATER RETICULATION AND ERF CONNECTIONS	
E	SOCCER/RUGBY FIELD TURF	
F	NETBALL COURT	
G	FENCING	
H	STORMWATER AND SUB SURFACE DRAINAGE	
I	MISCELLANEOUS	
TOTAL CARRIED FORWARD		

C.2.2.B: BUILDING WORKS – BOQ – (ABLUTION)

Item
No

Quantity

Rate

Amount

SECTION NO. 1**EXISTING PAVILION****PREAMBLES**

NOTE:

TENDERERS TO NOTE THAT THESE BILLS OF QUANTITIES MUST BE READ IN CONJUNCTION WITH THE COMPLETE TENDER DOCUMENTS, INCLUDING DRAWINGS, SPECIFICATIONS, ETC. IN CASE OF ANY DESCRIPTION AND SPECIFICATION DISCREPANCIES THE ARCHITECT'S / ENGINEER'S DRAWINGS AND SPECIFICATIONS WILL TAKE PREFERENCE.

SUPPLEMENTARY PREAMBLES**General**

For preambles refer to the General Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors. The "General Preambles for trades" shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained.

These Bills of Quantities have been compiled in accordance with the latest addition of the ASAQS "Standard System of Measuring Building Work", including all amendments, unless descriptions of items indicate a deviation.

Rates in this section shall be deemed to include for everything referred to by "shall be deemed to include" in the "Standard System", unless descriptions of items indicate a deviation.

Rates shall be deemed to include for work to existing surfaces and in existing buildings, where work stated as to existing.

Tenderers are referred to all supplementary preambles listed below for full descriptions of materials and items not fully described in all Bills THAT SHALL APPLY EQUALLY TO ALL BILLS, unless otherwise stated.

Carried to Collection

R

Section No. 1
SECTION NO. 1 - BUILDING: EXISTING PAVILION
Bill No. 1
ALTERATIONS

Definitions and Interpretations

Where the following provisional values are stated in descriptions to this section, the "JBCC version 6.2 January 2019" definitions and interpretations thereof will be applicable as stated below.

PRIME COST AMOUNT shall mean: "An amount included in the contract sum for the delivered cost of materials and goods obtained from a supplier as instructed by the principal agent"

BUDGETARY ALLOWANCE shall mean : "An amount included in the contract sum for work intended for execution by the contractor, the extent of which is identified but not detailed"

PROVISIONAL SUM shall mean : "An amount included in the contract sum for the supply and installation of work by a subcontractor."

PC Amounts

Appropriate fixing materials, etc. must be priced in addition, where applicable, to PC amounts

All PC amounts shall be deemed to cover the cost of supply and delivery of "materials and goods" only and installation, fixing, fixing material, profit, etc. must be priced in addition, unless otherwise stated.

PC amounts will be "per each" unless otherwise stated.

PC amounts will be "per each" unless otherwise stated.

Budgetary Allowances

Work for which budgetary allowances are provided may be deducted in whole or in part if not required, without any compensation for loss or profit on the said allowances

Carried to Collection

Section No. 1
SECTION NO. 1 - BUILDING: EXISTING PAVILION
Bill No. 1
ALTERATIONS

R

BILL NO. 1**ALTERATIONS (PROVISIONAL)****SUPPLEMENTARY PREAMBLES****General**

The contractor to note that all work in this section are to be executed within an existing facility and care should be taken not to damage any existing work and/or services that is not indicated as part of the scope of work. Any damages to these existing works and/or services to be made good or repaired to an acceptable and working state at the cost of the contractor.

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.).

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.

Demolitions and Works on Site

All demolitions and work on site must be carried out carefully and in the safest possible manner and the Contractor is to make a thorough examination and take all necessary precautions before proceeding with the work.

The Contractor shall not remove or interfere with any furniture, fittings, etc. unless specifically stated in the following items and shall give adequate notice to the Representative / Agent as to the removal of any such articles, from parts of the buildings that are to be altered, etc. in order for the Employer to have same removed before the Contractor commences work in such parts.

Carried to Collection

Section No. 1
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The Contractor's attention is drawn to the fact that the work shall be executed in consecutive order as ordered by the Representative / Agent and the program shall be agreed to suit the specific situation as the institution will be in full operation during the execution of the contract. The contractor is to give due notice of commencement of work in certain areas.

The Contractor will be held solely responsible for any damage to persons and / or property.

Damage and repairs to Services

Should the Contractor damage any services which are to remain in operation or any services which have not yet been disconnected prior to removal, then the Contractor will be held solely responsible for such damage and any further resultant damage.

The Contractor shall immediately notify the Representative / Agent and the Authorities concerned and he shall, at his own cost, make all necessary arrangements for disconnection and repairs with the relevant Authorities and shall pay all fees and charges levied.

Temporary barriers, screens, etc. including removal

The contractor is to allow for providing, install, maintain, move and subsequently remove all temporary barriers, screens, overhead protections, etc., that may be necessary whilst carrying out any portion of the work for the protection of people, vehicles, existing buildings, structures, services, etc.

Materials from Demolitions, Alterations, etc.

The Contractor must make his own arrangements for dumping and shall pay all fees and charges levied.

Credit for the value of materials from the alterations, etc. is to be allowed for in the rates.

Reference to "New work"

All **new work, items, finishes, etc.** referred to in this bill in replacing existing, to be installed to existing surfaces, etc. shall be deemed to be **measured elsewhere** unless specifically indicated to be included ("including").

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Asbestos items

The removal, handling, treatment, safe disposal, etc. of all asbestos items (if any) must be done strictly according to statutory regulations and law and by qualified people as prescribed.

Asbestos related handling, removal and safe disposing fees to be allowed for where asbestos material has been referred to

Nature and extent of the work

Tenderers are to familiarise themselves with the nature and extent of the work to be done and to examine the condition of all existing buildings as no claim shall be entertained on the grounds of ignorance regarding the conditions under which the work is to be executed.

New openings, etc. to existing walls

Rates shall be deemed to include (as applicable) for :

Neatly cutting through, removal of tiling and other finishes to both sides, including skirtings, cornices, windows, doors, door frames, mirrors, piping, cutting back and sealing off piping, taps, etc.

Making good finishes, including plaster, paint, etc. to both sides of walls, in reveals, wall soffits, on internal and external sills and thresholds, with neat flush intersections of new to existing surfaces.

Lintels, including removal of existing and cutting in of new, temporary support, drip grooves, etc.

Internal and external window sills, with dampcourse, cutting and repair brickwork, etc.

Repair thresholds, including removal of existing and supply of new weather or dividing strips, cutting in of new, cutting of and repair brickwork, etc.

Building up openings partially or in whole with brickwork.

Sundries

Rates shall be deemed to include (as applicable) for :

Cutting toothings and bonding new brickwork to existing and or Cutting toothings in brickwork to bear new concrete work

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Preparation of finished top of brick walls, concrete floors, etc. to receive new brickwork.

Making good internal plaster finish to concrete ceilings where brick walls are removed.

Making good top of remaining portions of brick walls where walls are broken down with cement screeds

Making good internal plaster finish to walls where adjoining brick walls, slabs, stairs, etc. are removed.

Neat flush intersections of all new to existing finishes, where applicable.

Rates for taking off of existing ceilings shall be deemed to include for disconnecting, taking off, putting aside existing **light fittings**, preparing and refitting later in the same position, where applicable.

DEMOLITION OF EXISTING WORK

Carefully break down and remove existing sundry structures, etc. from plastered and painted walls and screeded or smooth finished concrete floors, repair and prepare surfaces.

- | | | | |
|---|---|----|---|
| 1 | Corrugated steel roof canopy, approximate size 17,450 x 5,250 x 2,500mm high, with and including all roof sheeting, support sections, timber poles with concrete bases, brackets, bolts,, etc. and repairing brick wall where bolts were removed. | No | 1 |
|---|---|----|---|

FLOORS AND FLOOR FINISHES

Carefully cut through, break up and remove existing reinforced concrete surface beds with screed, for construction of new foundations and one brick walls, including all compaction, back filling, repairing of surface beds to both sides of walls, including fabric reinforcing, etc. (strip foundations, brickwork and floor finishes measured elsewhere).

- | | | | |
|---|--|---|----|
| 2 | Surface beds 600mm wide and not exceeding 150mm thick in patching. | m | 25 |
| 3 | Surface beds 750mm wide and not exceeding 150mm thick in patching. | m | 14 |

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WALLS, ETC.

Carefully break down and remove existing brick walls, etc., including tiling and other finishes, skirtings, cornices, doors, door frames, steel gates, cornices, mirrors, taps, piping (cutting back and sealing off piping), etc., repair reveals, soffits and floors to receive new finishes (paint measured elsewhere), including new lintels, temporary support, etc. all in accordance with architect's drawings.

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<u>Break new clear openings through existing walls, repair reveals and lintels with brickwork in cement mortar, repair finishes to both sides of walls and reveals, with neat flush intersections of new to existing finishes, soffits and thresholds (paint measured elsewhere), including new lintels, temporary support, etc.</u>				
Opening, size 1360 x 2100mm high, through one brick wall plastered and painted to both sides.	No	2		
<u>Break new clear openings through existing walls, including removal of timber doors and frames, repair reveals and lintels with brickwork in cement mortar, repair finishes to both sides of walls and reveals, with neat flush intersections of new to existing finishes, soffits and thresholds (paint measured elsewhere), including new lintels, temporary support, etc.</u>				
Opening, size 1200 x 2100mm high, through one brick wall plastered and painted to both sides.	No	2		
Opening, size 1290 x 2100mm high, through one brick wall plastered and painted to both sides.	No	2		
<u>Break new openings through existing walls, plastered and painted to both sides, prepare opening for new door and door frames, repair finishes to both sides of walls, soffits, reveals and thresholds, with neat flush intersections of new to existing finishes, including new lintels, temporary support, etc.</u>				
Opening through one brick wall for new door, size 813 x 2032mm high.	No	4		
<u>Break new openings through existing walls, plastered and painted to both sides, prepare opening for new windows (installed elsewhere), repair finishes to both sides of walls, soffits and reveals with neat flush intersections of new to existing finishes, including all lintels, drip grooves, damp proof course, cement mortar filling, etc., all as applicable and in accordance with details on drawings.</u>				
Opening through one brick wall for window, size 600 x 900mm high.	No	3		
Opening through one brick wall for window, size 1500 x 900mm high.	No	1		
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	<u>Break new openings through existing walls, plastered and painted to both sides, prepare openings for windows to be re-installed in new position, repair finishes to both sides of walls, soffits and reveals with neat flush intersections of new to existing finishes, including all lintels, drip grooves, damp proof course, cement mortar filling, etc., re-install window (removed elsewhere), all as applicable and in accordance with details on drawings.</u>				
15	Opening through one brick wall for window, size 2000 x 1250mm high.	No	1		
	<u>Remove timber doors and door frames, alter openings in existing brick walls, plastered and painted to both sides, including breaking out brickwork, lintels, etc., repair and prepare opening for new doors and door frames, repair finishes to both sides of walls, soffits, reveals and thresholds, with neat flush intersections of new to existing finishes, including new lintels, temporary support, etc.</u>				
16	Opening in one brick wall for door size 1300 x 2032mm high.	No	1		
	<u>Remove windows, alter openings in existing brick walls, plastered and painted to both sides, including breaking out brickwork, lintels, etc., repair and prepare opening for new windows, repair finishes to both sides of walls, soffits, reveals and thresholds, with neat flush intersections of new to existing finishes, including new lintels, temporary support, etc.</u>				
17	Opening in one brick wall for two windows, both sized 600 x 900mm high, with window size 2000 x 1250mm high removed.	No	4		
	<u>Remove windows, alter openings in existing brick walls, plastered and painted to both sides, including breaking out brickwork, lintels, etc., repair and prepare opening for new doors and door frames, repair finishes to both sides of walls, soffits, reveals and thresholds, with neat flush intersections of new to existing finishes, including new lintels, temporary support, etc.</u>				
18	Opening in one brick wall for door size 813 x 2032mm high, with window size 1500 x 1250mm high removed.	No	1		
19	Opening in one brick wall for door size 813 x 2032mm high and clear opening size 900 x 2100mm high, with window size 1500 x 1250mm high removed.	No	4		
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	<u>Carefully remove windows and put aside for re-use, alter openings in existing brick walls, plastered and painted to both sides, including breaking out brickwork, lintels, etc., repair and prepare opening for new doors and door frames, repair finishes to both sides of walls, soffits, reveals and thresholds, with neat flush intersections of new to existing finishes, including new lintels, temporary support, etc.</u>				
20	Opening in one brick wall, for door size 1500 x 2032mm high, with window size 2000 x 1250mm high removed.	No	1		
	<u>WALL FINISHES</u>				
	<u>Plastered surfaces.</u>				
21	Remove all loose material, prepare and repair deteriorated and uneven plastered concrete surfaces in patching as necessary, not exceeding 30mm deep, by skimming and filling the same with "Mendall 90" or similar approved, sand down to a smooth finish, etc.	m2	1 709		
	<u>Hack off and remove existing plaster, etc. from walls, etc. and prepare and repair surfaces for new plaster, etc., including cleaning, filling, removal of fungi and algae, etc.</u>				
22	Internal cement plaster, etc., in patching.	m2	5		
23	External cement plaster, etc., in patching.	m2	5		
	<u>Cut open cracks in plastered and painted brick walls, as necessary and repair, including drilling, including preparation, cleaning, edge chamfers, drilling, soaking, filling, prop gash, coating, plastering and sealing, neat flush intersection with adjoining plaster, finish off smoothly, sealing, etc.</u>				
24	Repair cracks in internal cement plaster.	m	5		
25	Repair cracks in external cement plaster.	m	5		
	<u>Tiled Surfaces, finished with ceramic, porcelain, mosaic, etc. tiles.</u>				
26	Hack off and remove existing 300 x 200mm tiles from internal plastered walls in patching, repair and prepare wall face to receive new paint.	m2	57		
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DOORS, WINDOWS, ETC.

Take out and remove, from brick walls, plastered and painted to both sides, existing timber door and frame, to form new clear opening, repair finishes to both sides of walls, reveals, soffits and thresholds, including necessary temporary support, neat flush intersection with adjoining finishes, etc.

27 Door, size 813 x 2032mm high. No 1

Remove from brick walls plastered and painted to both sides, existing steel sliding window screens, with and including steel pelmit, sliding gear, etc., brick up opening, new plaster to both sides of walls (paint measured elsewhere), including necessary temporary support, neat flush intersection with adjoining finishes, etc.

28 Sliding window screens, approximate size 1250 x 800mm high and pelmet approximately 2500mm long. No 1

Remove existing bolted on fixed steel stone guards for windows from plastered and painted brick walls.

29 Stone guards, size 1500 x 1325mm high. No 1

30 Stone guards, size 2000 x 1325mm high. No 4

Carefully remove existing bolted on fixed steel stone guards for windows from plastered and painted brick walls and re-install in new position.

31 Stone guards, size 2000 x 1325mm high, all in accordance with detail on architect's drawing no. S102 rev. Sa. No 1

ROOFS, ETC.

Inspect, clean and seal as necessary, existing unpainted profiled metal roof sheeting, with pitch not exceeding 25 degrees, to receive new paint (measured elsewhere).

32 Profiled metal roof sheeting including ridges, valleys, hips, etc. fixed to timber roof structure. m2 152

Take off and remove existing rainwater goods, including accessories, from timber/steel roof structure, etc. and prepare to receive new.

33 150 x 100mm Sheet steel gutters, etc. (downpipes removed elsewhere). m 28

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	<u>Take off and remove existing rainwater goods, including accessories, from plastered and painted brickwork or concrete, repair and prepare to receive new.</u>				
34	Not exceeding 110mm PVC downpipes, etc.	m	15		
	<u>Roof sundries.</u>				
35	Remove all loose material from deteriorated plasterboard/fiber-cement, etc. surfaces and sand down to a smooth finish, etc., to receive new paint (measured elsewhere).	m	99		
	<u>CEILINGS, ETC.</u>				
	<u>Carefully take down and remove existing ceilings, etc. from timber roof structure in patches and prepare to receive new.</u>				
36	Gypsum plaster board ceilings, with and including timber brandering, cover strips, cornices, insulation, etc.	m2	44		
	<u>Painted surfaces.</u>				
37	Remove all loose material, clean and prepare plasterboard/fiber cement surfaces to receive new paint (measured elsewhere), etc.	m2	235		
	<u>FITTINGS, INCLUDING CUPBOARDS, ETC.</u>				
	<u>Take off and remove existing fixed joinery fittings, etc., including carcasses, tops, sides, bottoms, shelves, divisions, back boards, drawers, doors, filler pieces, ironmongery, skirtings, edge strips, plugged bearers and brackets, cutting back and sealing off of piping (all as applicable), from plastered and painted brick walls and screeded/tiled concrete floors, repair and prepare surfaces to receive new.</u>				
38	Timber corner bar unit, size approximately 9000 x 600 x 2300mm high, with and including all timber counter boards and shelves, timber skirtings, steel framed counter sections, light fittings, electrical wiring and switches (securing and isolating electrical cabling and connection points), etc., all in accordance with details on architect's drawings.	No	1		
39	Section of timber floor counter and shelf unit, size approximately 1325mm long x 600mm wide x 1000mm high.	No	1		
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40	Timber bar cupboard floor unit, overall size approximately 3000mm long x 350mm wide x 1200mm high.	No	1		
41	Timber slatted benches, approximately 480mm wide, all in accordance with detail on Architect's drawing no. S101 rev. Sa.	m	16		
	<u>Refurbish existing fixed joinery fittings, etc., consisting of carcasses, bottoms, shelves, divisions, back boards, drawers, doors, filler pieces, ironmongery, skirtings, edge strips, plugged bearers and brackets.</u>				
42	Timber kitchen cupboard floor unit, overall size approximately 1660mm long x 600mm wide x 1000mm high, with steel sink.	No	1		
	<u>SUNDRY ASSECCORIES, IRONMONGERY, ETC.</u>				
	<u>Take off and remove existing metal shower curtain rails, including brackets, etc.</u>				
43	Rails, approximately 1800mm long.	No	4		
	<u>SANITARY FITTINGS, ETC.</u>				
	<u>Carefully disconnect, take up and remove existing fixed stainless steel, ceramic, porcelain, etc. sanitary fittings, etc, including accessories and fittings, temporary sealing off of piping, repair and prepare connections, wall and floor finishes to receive new sanitary fittings.</u>				
44	Urinal from plastered brick wall.	No	2		
	<u>Carefully disconnect, take up and remove existing fixed stainless steel, ceramic, porcelain, etc. sanitary fittings, etc, including accessories and fittings, permanently sealing off of piping, repair and prepare connections, wall and floor finishes.</u>				
45	Ceramic hand wash basin from plastered brick wall.	No	2		
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GENERAL PLUMBING

- | | | | |
|----|---|----|----|
| 46 | Carefully disconnect, take off and remove existing 100mm Cast-iron sewer pipes and fittings, not exceeding 1,25m girth, running through plastered and painted walls and between wc units and clay sewer pipes, prepare to receive new uPVC pipes (measured elsewhere), including connections to existing, seal walls around piping, repair wall finishes in patching and necessary excavation (not exceeding 0.75m deep), backfilling and ramming. | No | 5 |
| | <u>Carefully cut back, take off and remove existing piping, pipe fittings, sanitary fittings, etc., including temporary sealing off of piping where necessary and make good in all relevant trades.</u> | | |
| 47 | Copper/steel piping exceeding 28mm and not exceeding 40mm diameter, including taps, shower roses, etc. | m | 45 |

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Filling

Excavations will include for backfilling, compaction, etc.

Rates for filling and backfilling will be deemed to include for all selection and any necessary multiple handling of material.

Brickwork reinforcement

Rates of brickwork in foundations shall be deemed to include brickforce in every course

Cost of tests

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. (Cost of test cubes shall be deemed to be included in rates)

EXCAVATIONS. ETC.

Excavation in earth not exceeding 2m deep, including compaction of ground surface to bottoms of trench and hole excavations.

1	Trenches.	m3	14
2	Holes.	m3	4
3	Reduced levels under floors.	m3	10
<u>Extra over trench and hole excavations in earth for excavation in.</u>			
4	Soft rock.	m3	3
5	Hard rock.	m3	1

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Compaction of surfaces.

- | | | | |
|---|---|----|----|
| 6 | Compaction of reduced surface under floors etc., including breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density. | m2 | 30 |
| 7 | Compaction of ground surface to bottoms of trench and hole excavations, including breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density. | m2 | 14 |

FILLING, ETC.

Selected earth or gravel filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density.

- | | | | |
|---|--|----|---|
| 8 | Backfilling to trenches, holes, etc. | m3 | 4 |
| | <u>Approved gravel filling (G7) supplied and carted on by the contractor, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density.</u> | | |

- | | | | |
|---|------------------------------------|----|---|
| 9 | Under floors, steps, pavings, etc. | m3 | 4 |
|---|------------------------------------|----|---|

- | | | | |
|----|--------------------------------------|----|---|
| 10 | Backfilling to trenches, holes, etc. | m3 | 4 |
|----|--------------------------------------|----|---|

Approved gravel filling (G7) supplied and carted on by the contractor, compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density.

- | | | | |
|----|------------------------------------|----|---|
| 11 | Under floors, steps, pavings, etc. | m3 | 4 |
|----|------------------------------------|----|---|

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete.

- | | | | |
|----|--|----|---|
| 12 | Surface blinding under footings and bases. | m3 | 3 |
|----|--|----|---|

30MPa/19mm concrete.

- | | | | |
|----|---|----|----|
| 13 | Strip footings, including steps and necessary formwork thereto. | m3 | 16 |
|----|---|----|----|

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<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>30MPa/19mm Concrete.</u>			
14	Bases.	m3	1
<u>REINFORCEMENT</u>			
<u>Steel reinforcement to structural concrete work.</u>			
15	Not exceeding 16mm diameter bars.	t	0.07
16	Exceeding 16mm and not exceeding 25mm diameter bars.	t	0.02
<u>High tensile steel dowel bars.</u>			
17	Y12 hot dipped galvanised dowel bar, 300mm long, with one end embedded, not exceeding 150mm deep in side of existing concrete at construction joint, including core drilling and other end de-bonded, all in accordance with detail on Engineer's drawings.	No	76
<u>BRICKWORK, ETC.</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar.</u>			
18	Half brick walls.	m2	7
19	One brick walls.	m2	71
20	Piers, size 340 x 340 x approximately 850mm high, formed of half brick skins, including one Y12 steel bar in cavity, filled solid with 25MPa/7mm grout filling.	No	5
<u>EXTERNAL PLASTER</u>			
<u>Cement plaster on brickwork (small portions on concrete).</u>			
21	On external walls.	m2	5
<u>Primer and two coats Plascon Micatex paint.</u>			
22	On external walls.	m2	5
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FOUNDATIONS

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Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

Reinforcement

Descriptions of reinforcement shall be deemed to include for both medium and high tensile steel reinforcement

PREFABRICATED CONCRETE

Pre-cast concrete paving.

- 1 Supply, delivery, storage, etc. of CONCRETE PAVERS - PC Amount R7 500.00 (installation and profit measured elsewhere).

Item

7 500.00

Installation of and profit on concrete pavers (supply and delivery measured elsewhere), bedded on 20 - 40mm thick 4:1 river sand and cement mix and 50 - 75mm hardcore or crushed stone subgrade, fixed with wet, creamy cement slurry, grouted with 3:1 sand/cement mortar, including applying "Nanoproof" sealer or similar approved and approved weed killer at prescribed rates, etc. all in accordance with the suppliers specifications and detail on architect's drawings.

- 2 On floors and landings to falls.

m2

30

MOVEMENT JOINTS, ETC.

Expansion joints with Jointex, or other similar approved between vertical concrete surfaces or concrete and brickwork surfaces.

- 3 10mm Joints not exceeding 300mm high.

m

43

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CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>MASONRY</u>			
	<u>PREAMBLES</u>			
	For preambles refer to the "General Preambles for trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sundries</u>			
	Rates shall be deemed to include :			
	Brickforce every course for the first 5 courses thereafter every fifth course, every third layer for load bearing brickwork (where applicable), every course for four courses above window and door openings and continuing 600mm past opening, unless otherwise stated on the drawings, specification or measured items.			
	Cement mortar filling to top of pressed steel door frames, where applicable, and finished smoothly			
	All shot pinned ties between brickwork and concrete, roof ties, cramps, cutting, mortar fillets, weep holes to hollow walls, etc.			
	Turning pieces to soffits of all openings, etc.			
	Splayed mortar fillets , one course high in cavities of hollow walls and/or smoothly splaying down top of concrete filling in cavities of hollow walls, at floor level, above windows, etc.			
	Building through or in of ends of timber, steel, etc. beams, bearers, etc., including slip joints where applicable			
	Cutting toothings and bonding new brickwork to existing			
	Preparation of finished top surfaces of existing brick walls, floors, etc. to receive new brickwork			
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Exposed **Slip Joints** where **non-bearing brickwork** meets concrete slabs, beam, etc. soffits - formed of two layers of hardboard with 350 micron damp proof course in-between, including surface preparation, etc. (Slip joints to load bearing brickwork measured elsewhere).

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar.

1	Half brick walls.	m2	69
2	One brick walls.	m2	197
3	Half brick beamfilling, not exceeding 500mm high.	m	20
4	Piers, size 340 x 340 x 2200mm high, formed of half brick skins, including one Y12 steel bar in cavity, filled solid with 25MPa/7mm grout filling.	No	5

SUNDRIES AND FINISHES TO OPENINGS IN BRICK WALLS

All opening related sundries to openings in one brick walls for doors (doors measured elsewhere), including all lintels, plaster and paint finishes to all narrow widths, reveals, etc. (general wall brickwork, plaster, paint and other wall finishes are deducted elsewhere for openings), all as applicable and in accordance with details on drawings.

5	1300 x 2032mm high.	No	1
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BRICKWORK SUNDRIES

Joint forming material in movement joints.

6	10mm Jointex, or similar approved, built in vertically through or in brick walls.	m2	17
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Air bricks etc.

- 7 Opening in one brick wall, size 1500 x 1500mm high, consisting of 150 x 150mm cement breeze blocks, including all opening related sundries to openings in one brick walls for windows, including all lintels, drip grooves, damp proof course, cement mortar filling, plaster and paint finishes to all narrow widths, reveals, etc. (general wall brickwork, plaster, paint and other wall finishes are deducted elsewhere for openings), all as applicable and in accordance with details on drawings.

No

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SECTION NO. 1 - BUILDING: EXISTING PAVILION

Bill No. 5

WATERPROOFING

R

-P31-

METAL FLASHINGS, ETC.

- 2 Supply, delivery, storage, etc. of METAL FLASHINGS, fixing material, etc. - PC Amount R7 500.00 (installation and profit measured elsewhere).

Item 7 500.00

Installation of and profit on metal flashing (supply and delivery measured elsewhere), all in accordance with the suppliers specifications.

- 3 Counter flashings, etc. not exceeding 300mm girth. m 21

- 4 Headwall flashing, not exceeding 500mm girth. m 21

INSULATION

Sisalation FR405 Multi-purpose grade reinforced aluminium foil double sided insulation, drawn tautly across timber or steel purlins (purlins measured elsewhere), purlins spaced at not exceeding 1200mm centres, including all fixing accessories, fixing, lapping, sealing, etc., all in accordance with the supplier's specifications.

- 5 Insulation fixed concurrent with roof covering. m2 38

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ROOF COVERINGS

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Bill No. 6

ROOF COVERINGS

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SECTION NO. 1 - BUILDING: EXISTING PAVILION

Bill No. 6

ROOF COVERINGS

R

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BILL NO. 7**CARPENTRY AND JOINERY****PREAMBLES**

For preambles refer to the "General Preambles for trades"

SUPPLEMENTARY PREAMBLES**Joinery**

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.

Fixing

All fixing in this bill shall be deemed to be to **timber** unless otherwise stated.

All nailing of timber roof trusses, purlins, etc. shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used

All **glueing, nailing and screwing** of timber to timber (including other "soft" materials) shall be deemed to be included in the descriptions. Where the method of fixing is not stated it shall be deemed to be glued, nailed and screwed

Unless specifically stated otherwise, screwing of "soft" or "hard" items given linear shall be done at not exceeding 600mm centres

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Where items are described as "bolted" the bolts shall be deemed to be included in the rates.

Sundries

Where applicable rates shall be deemed to include for :

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SECTION NO. 1 - BUILDING: EXISTING PAVILION
Bill No. 7
CARPENTRY AND JOINERY

Wrought and formed timber ends in eaves.

Brackets, expansion bolts, ties, clips, etc.

Two coats of carbolineum and wrapping in dpc where timber members are built through or into brickwork for the full brick wall thickness.

LEAN TO ROOFS, ETC.

Sawn treated SA Pine grade V5.

- | | | | |
|---|---|---|----|
| 1 | 50 x 76mm Purlins. | m | 63 |
| 2 | 50 x 152mm Rafters in lengths not exceeding 2,4m. | m | 58 |

EAVES, VERGES, ETC.

4mm Thick Everite Nutec medium density pressed fibre-cement boarding fixed to timber, including 38 x 38mm sawn softwood branderling at 250mm centres in one direction and cross branderling, with and including H-type PVC jointing strips.

- | | | | |
|---|-------------------------------|---|----|
| 3 | To eaves soffits, 300mm wide. | m | 3 |
| 4 | To eaves soffits, 600mm wide. | m | 21 |

Everite Nutec medium density pressed fibre-cement.

- | | | | |
|---|---|---|----|
| 5 | 15 x 225mm Fascias and Barge boards including galvanised steel H-profile jointing strips. | m | 26 |
|---|---|---|----|

DOORS, FRAMES, ETC.

Wrought Meranti doors as "Swartland SD16" or similar, including 1mm mild steel cladding up to edges, hung to standard Meranti solid hardwood door frames, all in accordance with detail on architects's drawings.

- | | | | |
|---|---|------|-----------|
| 6 | Supply, delivery, storage, etc. of TIMBER DOORS AND FRAMES, fixing materials, etc - PC Amount of R75 000.00 (installation and profit measured elsewhere). | Item | 75 000.00 |
| <u>Installation of and profit on timber doors (supply and delivery measured elsewhere).</u> | | | |
| 7 | 44mm Semi-solid timber masonite door, size 813 x 2032mm. | No | 11 |

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CARPENTRY AND JOINERY

R

<u>Installation of and profit on timber doors (supply and delivery measured elsewhere).</u>				
8	44mm Solid hardwood door, size 1213 x 2032mm.	No	2	
9	44mm Solid hardwood door, size 1413 x 2032mm.	No	3	
<u>Installation of and profit on timber frames, etc. (supply and delivery measured elsewhere).</u>				
10	Frame for single door, in one brick wall, size 900 x 2125mm.	No	11	
11	Frame for double door, in one brick wall, size 1300 x 2125mm.	No	2	
12	Frame for double door, in one brick wall, size 1500 x 2125mm.	No	3	
<u>FITTINGS, FIXED TO CONCRETE OR BRICKWORK</u>				
<u>Cupboards etc., complete with and including carcasses, bearers, skirtings, cleats, filler pieces, sides, divisions, shelves, doors, tops, drawers, edging, ironmongery, steel brackets, edge strips, etc. all in accordance with details on architect's drawings.</u>				
13	Timber bar unit, approximate size 7100 x 600 x 1600mm high.	No	1	
<u>BENCHES</u>				
<u>Wrought Meranti</u>				
14	Open Slatted Benches, 480mm wide, formed of six 32 x 70mm angle rounded slats at 80mm centres, bolted to and including rectangular steel tubing angle brackets at not exceeding 600mm centres, each formed of 50 x 25 x 2.5mm thick mild steel angle sections and 25 x 25 x 5mm thick mild steel brackets, bolted to brickwork with M10 x 100mm chemical anchors (two per bracket), with and including holes, mitred angle intersections, closed ends, etc., all in accordance with detail on architect's drawings.	m	28	
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CARPENTRY AND JOINERY				

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Bill No. 7

CARPENTRY AND JOINERY

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Bill No. 7

CARPENTRY AND JOINERY

Item
No

Quantity

Rate

Amount

BILL NO. 8**CEILINGS, PARTITIONS AND ACCESS
FLOORING****PREAMBLES**

For preambles refer to the "General Preambles for trades"

SUPPLEMENTARY PREAMBLES**Descriptions:**

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs to brickwork or concrete at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere

Ceilings, etc.

Unless otherwise described ceilings shall be deemed to be horizontal

Rates for ceilings shall be deemed to include all straight and raking cutting.

Rates for ceilings shall be deemed to include all straight and raking cutting

Steel components

All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121

Openings and holes for Light fittings, etc.

Rate of ceilings shall be deemed to include for all **openings and holes** for light fittings, mechanical diffusers, ventilation, etc. as well as additional trimmings, hangers, supports, etc. to these positions.

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Bill No. 8
CEILINGS AND PARTITIONS

NAILED UP CEILINGS

9mm Thick taper edge gypsum plasterboard, with joints taped with 63mm wide strips of mesh scrim and the whole finished with "Gyproc Rhinolite Multipurpose" or similar approved skim plaster.

- | | | | |
|---|--|----|----|
| 1 | Ceilings, screwed on with drywall screws, including 38 x 50mm sawn softwood branderling at 400mm centres in both direction, including all cross branderling and additional branderling against side walls. | m2 | 58 |
| 2 | Ceilings in patching, screwed on with drywall screws, including 38 x 50mm sawn softwood branderling at 400mm centres in both direction, including all cross branderling and additional branderling against side walls. | m2 | 11 |
| 3 | Extra over ceiling for 750 x 750mm trap door formed of 38 x 38mm softwood branderling frame, covered with ceiling board and fitted flush in opening, including trimmers around opening perimeter, etc. | No | 2 |

CORNICES, ETC.

'Gyproc' or similar.

- | | | | |
|---|---------------------|---|----|
| 4 | 75mm Coved cornice. | m | 84 |
|---|---------------------|---|----|

INSULATION

100mm Thick Isotherm polyester thermal insulation (density 10 kg/m³)

- | | | | |
|---|--|----|----|
| 5 | On ceilings, closely fitted on top of branderling between roof timbers, etc. | m2 | 69 |
|---|--|----|----|

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CEILINGS AND PARTITIONS

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Bill No. 8

CEILINGS AND PARTITIONS

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CEILINGS AND PARTITIONS

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Section No. 1
SECTION NO. 1 - BUILDING: EXISTING PAVILION
Bill No. 9
IRONMONGERY

<u>DOOR IRONMONGERY, ETC.</u>			
1	Supply, delivery, storage, etc. of IRONMONGERY - PC Amount R12 000.00 (installation and profit measured elsewhere).		
	<u>Installation of and profit on door ironmongery (supply and delivery measured elsewhere).</u>	Item	12 000.00
2	Door hanging and access related ironmongery to semi-solid timber single door.	No	11
3	Door hanging and access related ironmongery to hardwood double door.	No	5
<u>SANITARY IRONMONGERY</u>			
4	Sundry sanitary ironmongery (PC amount R1 200.00) for the supply, delivery, storage, etc. of all sanitary fittings (installation and profit measured elsewhere).		
	<u>Installation of and profit on sundry sanitary ironmongery and fittings (supply and delivery measured elsewhere), plugged, etc. as applicable.</u>	Item	1 200.00
5	Toilet roll holders (SF6).	No	4
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IRONMONGERY

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Bill No. 9

IRONMONGERY

R

Item
No

Quantity

Rate

Amount

BILL NO. 10**METALWORK****PREAMBLES, ETC.**

For preambles refer to the "General Preambles for Trades"

SUPPLEMENTARY PREAMBLES**Descriptions**

Descriptions of bolts shall be deemed to include nuts and washers

Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete

Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described

Setting up and building in of windows, frames, etc.

Description of all windows, frames, combination doors, louvre units, etc. shall be deemed to include for setting up, building in or fixing to brickwork, blockwork, concrete, etc., unless otherwise stated.

Jointing

Rates for steelwork shall be deemed to include for labour to all intersections

MILD STEEL**SUNDRY STEELWORK**

- 1 Supply, delivery, storage, etc. of METAL TRUSS HANGER BRACKETS, etc. - PC Amount R12 500.00 (installation and profit measured elsewhere).

Item

12 500.00

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Bill No. 10
METALWORK

	<u>Installation of and profit on metal brackets, bolts, etc. to roof timbers (supply and delivery measured elsewhere), all in accordance with the suppliers specifications.</u>			
2	Truss hanger brackets, etc.	No	25	
	<u>Bolts to brackets, etc.</u>			
3	Metal expansion bolt (PC amount R45.00/each).	No	100	
	<u>HOT DIPPED GALVANISED MILD STEEL</u>			
	<u>STEEL WINDOWS, DOORS, ETC.</u>			
	<u>Standard residential windows with burglar bars to opening sections.</u>			
4	Window, size 600 x 900mm high.	No	11	
5	Window, size 1500 x 900mm high.	No	1	
	<u>GATES, SCREENS, ETC.</u>			
	<u>Welded screens and gates to external doors.</u>			
6	Double gate, size 1300 x 2125mm high, formed of 60 x 40 x 2mm thick tubular section frame, two 40 x 6mm thick flat section intermediate rails and filled in with 19mm diameter vertical bars at approximately 110mm centres, fitted with one tubular section 160 x 40 x 2mm thick x 170mm long lock box, three 25mm diameter x 80mm long pin hinges (or bullet hinges) and 35 x 35 x 8mm thick flat section brackets.	No	1	
7	Double gate, size 1500 x 2125mm high, formed of 60 x 40 x 2mm thick tubular section frame, two 40 x 6mm thick flat section intermediate rails and filled in with 19mm diameter vertical bars at approximately 110mm centres, fitted with one tubular section 160 x 40 x 2mm thick x 170mm long lock box, three 25mm diameter x 80mm long pin hinges (or bullet hinges) and 35 x 35 x 8mm thick flat section brackets.	No	1	
	<u>Fixed Window Screens as supplied by Yebo Windows and Doors, or similar approved, including frames, intermediate bars, mesh front and side covering, brackets, lugs, fixing and fixing material, etc., all as applicable and in strict accordance with the manufacturer's specifications and as detailed on architect's drawings.</u>			
8	Screen, size 600 x 900mm high.	No	8	
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	Bill No. 10			
	METALWORK			

Welded stone guards.

- 9 Stone Guard for window, size approximately 600 x 900mm high overall, frame formed of 30 x 30 x 3mm thick angle section frame bolted to brickwork with M8 expansion bolts, with and including mitred joints, lugs, intermediates at 450mm centres, inlay formed of Mentis Mentex (code:80A), etc., all in accordance with detail on architect's drawings.
- 10 Stone Guard for window, size approximately 1500 x 900mm high overall, frame formed of 30 x 30 x 3mm thick angle section frame bolted to brickwork with M8 expansion bolts, with and including mitred joints, lugs, intermediates at 450mm centres, inlay formed of Mentis Mentex (code:80A), etc., all in accordance with detail on architect's drawings.

No

3

No

1

SUNDRY NATURAL ANODISED ALUMINIUM WORK.

- 11 40 x 40 x 3mm Thick angle section weather strip, in varying lengths, plugged to concrete.

m

3

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Bill No. 10
METALWORK

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Bill No. 10

METALWORK

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Bill No. 10

METALWORK

R

EXTERNAL PLASTER

One coat cement plaster on brickwork (small portions on concrete).

6	On walls.	m2	54
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Bill No. 11
PLASTERING

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Bill No. 11

PLASTERING

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Bill No. 11

PLASTERING

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>TILING</u>			
	<u>PREAMBLES, ETC.</u>			
	For preambles refer to the "General Preambles for trades"			
	<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 as recommended by the manufacturer of the tiles.			
	<u>Sundries</u>			
	Rates shall be deemed to include for all fair, exposed cutting around, pipes, circular cutting, narrow widths , etc.			
	Rates for tiling on "waterproofing" to include for treatment with rubberised paint and clean river sand for adhesion to tile adhesive			

	<u>WALL TILING</u>			
1	Supply, delivery, storage, etc. of WALL TILES - PC Amount R2 000.00 (installation and profit measured elsewhere).	Item		2 000.00
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	Bill No. 12			
	TILING			

	<u>Installation of and profit on, not exceeding 600 x 600mm porcelain floor wall tiles (supply and delivery measured elsewhere), fixed with adhesive to plastered walls, with and including "Tal Goldstar 6" or similar approved adhesive and flush pointed in 5mm joints with "Tal" tinted waterproof jointing compound.</u>				
2	On walls in patches.	m2	10		
	<u>FLOOR TILING</u>				
3	Supply, delivery, storage, etc. of FLOOR TILES - PC Amount R3 000.00 (installation and profit measured elsewhere).		Item		3 000.00
	<u>Installation of and profit on, not exceeding 600 x 600mm porcelain floor tiles (supply and delivery measured elsewhere), fixed with adhesive to plastered walls, with and including "Tal Goldstar 6" or similar approved adhesive and flush pointed in 5mm joints with "Tal" tinted waterproof jointing compound.</u>				
4	On floors and landings in patches.	m2	17		
	<u>SUNDRIES</u>				
	<u>Floor and wall trims</u>				
5	8mm Aluminium straight edge trim as "Kirk Marketing" M.Trim (Code : ASE080), fixed between or to edges of tiles in floor or wall finishes	m	10		
	<u>Joint sealants</u>				
6	5 x 10mm Polyurethane sealant in movement joints between tile joints or tile and wall joints as "TAL Goldstar Sealmaster 1000" with backing cord as "TAL Sealmaster Cord", including raking out as necessary to receive joint filler.	m	10		
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Bill No. 12

TILING

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Bill No. 12

TILING

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>INTERNAL PLUMBING AND DRAINAGE</u>			
	<u>PREAMBLES</u>			
	For preambles refer to the "General Preambles for trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Concrete pipes:</u>			
	Pipes shall be jointed with Ogee joints with rubber collars or socket and spigot joints with rubber rings			
	<u>uPVC pipes and fittings:</u>			
	Soil, waste and vent pipes and fittings shall be solvent weld jointed			
	<u>uPVC pressure pipes and fittings:</u>			
	Pipes for water supply shall be of the class stated			
	Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings			
	Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints			
	<u>Copper pipes:</u>			
	Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground			
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	INTERNAL PLUMBING AND DRAINAGE			

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level

Wire gratings

Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster

Excavations

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"

Laying, backfilling, bedding, etc. of pipes

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:

SABS 1200 L : Medium-pressure pipelines

LD : Sewers

LE : Stormwater drainage

Pipe trenches etc. shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200

DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200

LB : Bedding (Pipes).

Unless otherwise described bedding of rigid pipes shall be class B bedding

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Bill No. 13

INTERNAL PLUMBING AND DRAINAGE

R

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

Stainless steel basins, sinks, wash troughs, urinals, etc.

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of sanitary fittings shall be deemed to include waste unions, rubber or vulcanite plugs and chains fixed to fittings

Fixing of Sanitary Fittings

Descriptions of wall mounted, floor standing, drop in, etc. type sanitary fittings shall be deemed to include fixing in position and all fixing accessories

Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer

Chasing, etc.

The cost of chasing, building in, etc. and making good shall be included in the rates

Gutters and Rainwater pipes

Rates for gutters shall be deemed to include for all angles, stopped, ends, outlets, etc.

Rates for rainwater pipes shall be deemed to include for all angles, offsets, shoes, etc.

Pipe fittings, etc.

All pipe fittings, including bends, junctions, connections, cleaning eyes, etc., as well as marker blocks, concrete encasing, thrust blocks, excavation, filling, holes, repairing around holes, tests, etc., shall be deemed to be included in the rates

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Bill No. 13
INTERNAL PLUMBING AND DRAINAGE

R

RAINWATER DISPOSAL

0.6mm as "Watertite guttering" square profile seamless aluminium gutters, coated with Colourtech G4 finish and sealed on the inside with Dow Corning 813 silicone sealer.

- 1 125 x 85mm in H3003h 14 profile, including cut and mitred angles covered with a mitre strip externally, fixed to fibre cement fascias, etc. with 20 x 2.5mm internal hanger brackets at 600mm centres using aluminium peeled rivets.

m 31

0.6mm Watertite Guttering domestic seamless aluminium rainwater pipes, coated with Colourtech G4 finish.

- 2 100 x 75mm Rainwater down pipes in continuous lengths.

m 22

SANITARY FITTINGS

- 3 WC Suite comprising of "Viking" Close Coupled Toilet (patent no.: P2015/06505) and "Cobra 832/350F" angle stop valve & flexi connector (code: SKU: 007636) or similar approved, all in accordance with detail on architect's Sanitary Fittings Schedule (SF1).

No 4

- 4 Wall mounted urinal as "Viking" or similar approved, including "Cobra" Standard Stop Tap 221-20 - brass (code: SKU: FSTAF2C3-7FT01), "Splashworks" P-trap plain, "Cobra" slotted basin waste and sealing around with silicone sealant where urinal meets wall, all in accordance with detail on architect's Sanitary Fittings Schedule (SF2).

No 11

- 5 Basin suite as "Viking" or similar approved Hand Basin, fixed to wall with 10mm fixation bolt and nut, sealed with silicone sealant where basin meets wall, with and including "Cobra 832/350F" angle stop valve & flexi connector (code: SKU: 007636), "Cobra" Standard Bib Tap - brass (code: SKU: FBBAN1C3-7FT01), "Cobra" bottle trap 345/50P and waste plug as "Cobra" 308, all in accordance with detail on architect's Sanitary Fittings Schedule (SF3).

No 9

- 6 Shower suite comprising of two "Cobra" Standard Stop Tap 221-20 - brass, with 15mm chrome vandal-resistant water-saving shower rose as "Walcro" (code: CIRS V3-6) or similar approved, all in accordance with detail on architect's Sanitary Fittings Schedule (SF4).

No 8

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Bill No. 13

INTERNAL PLUMBING AND DRAINAGE

7 Shower suite enclosure, all in accordance with detail on architect's Sanitary Fittings Schedule.

No

1

8 Shower Drain as "Cobra" Round Shower P Trap (code: SKU: FSWTR240-7FT01) or similar approved, all in accordance with detail on architect's Sanitary Fittings Schedule (SF5).

No

8

SANITARY PLUMBING

Internal Sanitary Waste Disposal and Drainage system complete (up to the point indicated on the applicable drawing - "Civil Works" part measured elsewhere), including all piping, pipe fittings, traps, vent valves, cowls, concrete encasings, gulleys, gratings, holes, connections, repairing around holes, testing, etc., all in accordance with architects Internal Drainage Layout and details, all to the engineer's approval.

9 Shower point.

No

9

10 Basin point.

No

9

11 Water closet (WC) point.

No

4

12 Wall mounted urinal point.

No

11

WATER SUPPLIES

Internal Cold and Hot water reticulation, up to the point indicated on the applicable drawing - "Civil Works" part measured elsewhere. (sanitary fittings and accessories measured elsewhere), including all piping, pipe fittings, taps (unless covered under sanitary fittings), valves, masterboxes, sleeves, holes, repairing around holes, testing, etc., all in accordance with architects Internal Water Reticulation Layout and details, all to the engineer's approval.

13 Shower point.

No

9

14 Basin point.

No

9

15 Water closet (WC) point.

No

4

16 Wall mounted urinal point.

No

11

17 Geyser point.

No

2

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SECTION NO. 1 - BUILDING: EXISTING PAVILION

Bill No. 13

INTERNAL PLUMBING AND DRAINAGE

ELECTRIC WATER HEATERS, ETC.

Kwikot Water Heaters complying with SABS 151-1992 and valves, etc all in accordance with SANS 10254.

- 18 200 Litre "Kwikot" Superline 400 Dual electric water heater (Code : DSG-200-5), overall size 1325 x 600 x 600mm high, operating at 400kPa with temperature and pressure safety relief valve, including drain cock, pressure control valve, vacuum breakers, floor stand, PVC overflow tray and electrical connection, all in accordance with detail on architect's Sanitary Fittings Schedule.

No

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Bill No. 13

INTERNAL PLUMBING AND DRAIANGE

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Section No. 1

SECTION NO. 1 - BUILDING: EXISTING PAVILION

Bill No. 13

INTERNAL PLUMBING AND DRAIANGE

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BILL NO. 14**PAINTWORK****PREAMBLES**

For preambles refer to the "General Preambles for trades"

SUPPLEMENTARY PREAMBLES

Preparation of surfaces, specification detail, etc. to be in accordance with attached architect's Paint Schedule.

Colours

Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091

Primers and Undercoats

Primers, Undercoats, etc. shall be in accordance with the manufacturer's specifications, unless otherwise stated.

Drying, curing and moisture content

Surfaces to be painted shall be dry and cured for a minimum of days and with a moisture content as prescribed by the paint manufacturers.

Preparatory work to existing, previously painted and unfinished work

Rates shall be deemed to include for all preparatory work to existing surfaces, including cleaning and prepare surfaces, stopping, filling, knotting, sanding, etc., all to be done in accordance with the paint manufacturer's specifications.

Paint finish in Foundations

Rates for paint finishes on external surfaces, including walls, columns, etc., shall be deemed to include for painting such surfaces in foundations.

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Bill No. 14
PAINTWORK

Structural Steelwork

All structural steel to be free of dust, rust, oil, grease, debris before painting commencement

Colour to Architects specification

All in accordance with SABS 684

Damaged areas shall be repaired on site in accordance with SABS200HC

Paint Specification, Guarantee, etc.

Paint utilised for application must carry a supplier specific guarantee of minimum of 12 years

Paintwork to existing surfaces

Rates of paintwork to previously painted surfaces shall be deemed to include for sound surfaces, unless otherwise stated

PAINT WORK TO NEW WORK**ON FLOATED, SKIMMED, ETC PLASTER SURFACES**

Primer and two coats "Plascon Double Velvet" or similar approved paints, etc.

1	On internal walls.	m2	493
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Primer and two coats Plascon Micatex paint.

2	On external walls.	m2	54
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Three coats "Nova 4" Concrete and Stone sealant.

3	On floors.	m2	39
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ON PLASTERBOARD / FIBRE-CEMENT, ETC. SURFACES

Primer and two coats Plascon Wall and All paint.

4	On internal ceilings.	m2	69
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5	On cornices.	m	84
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	<u>Primer and two coats Plascon Micatex paint.</u>		
6	On external sloping ceilings.	m2	14
7	On fascias and barge boards.	m2	12
	<u>ON METAL SURFACES</u>		
	<u>Primer, one coat universal undercoat and two coats "Plascon Waterbased Velvagro" or similar approved paint.</u>		
8	On windows with burglar bars	m2	15
9	On lattice gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area).	m2	25
	<u>ON WOOD, ETC. SURFACES</u>		
	<u>One coat universal undercoat and two coats "Plascon Professional Gloss Enamel" or similar approved paint.</u>		
10	On doors.	m2	68
11	On door frames, etc.	m2	16
12	On roof timbers at eaves and verges.	m2	15
	<u>PAINT WORK TO PREVIOUSLY PAINTED WORK</u>		
	<u>ON FLOATED PLASTER (INCLUDING NEW PLASTER IN PATCHES)</u>		
	<u>Primer and two coats "Plascon Double Velvet" or similar approved paints, etc.</u>		
13	On internal walls.	m2	1 201
	<u>Primer and two coats "Plascon Micatex" or similar approved paints, etc.</u>		
14	On external walls.	m2	509
	<u>ON PLASTERBOARD / FIBRE-CEMENT, ETC. SURFACES</u>		
	<u>Primer and two coats Plascon Wall and All paint.</u>		
15	On internal ceilings.	m2	235
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16	On cornices.	m	110
	<u>Primer and two coats Plascon Micatex paint.</u>		
17	On fascias and barge boards.	m2	48
	<u>ON METAL SURFACES</u>		
	<u>Re-sealing all roof bolts, etc., one coat primer, one coat universal undercoat and two coats "Plascon Professional Gloss Enamel" or similar approved paint.</u>		
18	On profiled metal roof sheeting.	m2	152
19	On vertical profiled metal roof sheeting panels.	m2	8
	<u>Spot priming defects in pre-primed surfaces, one coat universal undercoat and two coats "Plascon Professional Gloss Enamel" or similar approved paint.</u>		
20	On structural steel (Provisional).	m2	10
	<u>One coat universal undercoat and two coats "Plascon Professional Gloss Enamel" or similar approved paint.</u>		
21	On windows	m2	50
22	On windows with burglar bars	m2	2
23	On gates, lattice gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area).	m2	70
	<u>ON WOOD ETC. SURFACES</u>		
	<u>Primer and two coats "Plascothane Plascothane Purecoat Clear" or similar approved paint.</u>		
24	On open slatted hardwood benches (Both sides measured over the full flat area).	m2	35
	<u>One coat universal undercoat and two coats "Plascon Professional Gloss Enamel" or similar approved paint.</u>		
25	On doors.	m2	67
26	On door frames, etc.	m2	18

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PAINTWORK

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BILL NO. 15**EXTERNAL PLUMBING AND DRAINAGE****PREAMBLES, ETC.**

Tenderers are referred to other Sections and Bills (with special reference to "Internal Plumbing and Drainage") for preambles and full descriptions of materials and items not fully described in this Bill AND WHICH SHALL APPLY EQUALLY TO WORK IN THIS Bill, unless otherwise described

SUPPLEMENTARY PREAMBLES**uPVC pipes and fittings**

uPVC pipes and fittings shall be with socket and rubber ring type joints

Concrete pipes

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth, unless otherwise stated.

Excavations

All descriptions of pipes, manholes, catchpits, etc shall be deemed to include for all excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

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Bill No. 15
EXTERNAL PLUMBING AND DRAINAGE

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc. of pipes

All descriptions of pipes, manholes, catchpits, etc shall be deemed to include for all excavations

Pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:

SABS 1200 L : Medium-pressure pipelines

LD : Sewers

LE : Stormwater drainage

Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200

DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200

LB : Bedding (Pipes).

Unless otherwise described bedding of rigid pipes shall be class B bedding and semi-rigid pipes shall be bedded in accordance with details on drawing 2007/08/05

Manholes and Inspection Chambers

Rates for all manholes and inspection chambers will be deemed to include for step irons, excavation, backfilling, ramming, etc. as well as for all benching, internal channelling, channel fittings and building or cutting of piping through vertical walls and sealing thereof.

Precast concrete catchpits, inspection chambers, etc. shall be constructed in accordance with the applicable details shown on Drawing LE-1 of SABS 1200LE. Precast sections and slabs shall comply with SABS 1294.

SOIL AND WASTE DRAINAGE

- 1 Search, find and excavate exceeding 1m and not exceeding 2m deep, cut into side of existing pre-cast concrete or brick inspection chamber, connect and seal around new uPVC pipe not exceeding 160mm diameter, with and including necessary fittings, making good, backfilling, ramming, changing of internal channelling, etc.

No

1

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EXTERNAL PLUMBING AND DRAINAGE

<u>Class 34 heavy duty uPVC pipes, all in accordance with typical details on engineer's drawings.</u>					
2	110mm Pipes laid in and including trenches not exceeding 1m deep, including all fittings (bends, junctions, etc.), measured up to inspection point and internal pipes measured with Internal Plumbing and Drainage.	m	40		
	<u>Junction boxes, sumps, catchpits, inspection chambers, etc.</u>				
3	Inspection chamber 400 x 400mm, comprising of 160mm PVC Gulley Trap Assembly, not exceeding 1m deep to invert, including rodding eye, piping, gulley head, etc., all encased in unreinforced concrete (20MPa), with and including three brick courses to front and sides, and all exposed concrete surfaces finished smooth, all in accordance with typical details on engineer's drawings.	No	2		
	<u>Covers, frames, etc.</u>				
4	Polymer cover and frame (Type 2A SABS 558-1973) casted into 20/19 MPa concrete slab, all in accordance with typical details on engineer's drawings.	No	2		
	<u>Testing.</u>				
5	Allow for testing the whole of the external soil and waste drainage pipe system.			Item	
<u>WATER SUPPLIES</u>					
6	Search, find and excavate not exceeding 1m deep to expose existing 50mm diameter uPVC main water supply connection and connect to new 50mm HDPE water pipe, including all necessary fittings, back filling, ramming, etc.	No	1		
	<u>HDPE pipes class 12.</u>				
7	50mm Diameter pipe laid in and including trenches not exceeding 1m deep, including all fittings (bends, junctions etc.), thrust blocks, etc., all in accordance with detail on engineer's drawings.	m	40		
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Sundries.

- 8 Valve chamber, not exceeding 1m deep, including type 2A frame and lid, 300mm AC CID pipes, bedding, concrete slab, etc., all in accordance with architect's detail on engineer's drawings.
- 9 50mm O.R. brass in-line Y-Strainer as "Walcro" STR 50, max water temperature: 110 deg celsius, max pressure: 20 bar and 500 microns filter all in accordance with detail on architect's Sanitary Fittings Schedule.

No

2

No

2

Testing.

- 10 Allow for testing the whole of the external fire water supply system.

Item

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Bill No. 15

EXTERNAL PLUMBING AND DRAINAGE

Item No		Quantity	Rate	Amount
	<u>BILL NO. 16</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	Work for which budgetary allowances are provided will be measured and valued in accordance with clause 26 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances			
	Provisional sums are for material and equipment supplied and installed complete by firms of specialists			
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	<u>General attendance on nominated/selected subcontractors</u>			
	General Attendance			
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
	Special attendance - Refer Clause 10.2 of Section B of Preliminaries			
	Supervision upon delivery and unloading, storing, placing in position, specific hoisting to the desired level, carnage and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, providing special power and lighting supplies, building in of sleeves, switch boxes and distribution boards, etc., the use of water, toilets and similar facilities, special security, general protection and repair and making good work after the Sub-contract is completed and clearing away rubbish on completion.			

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	SECTION NO. 1 - BUILDING: EXISTING PAVILION			
	Bill No. 16			
	PROVISIONAL SUMS			

BUDGETARY ALLOWANCES, ETC.

- 1 Notice board (PC Amount R5 500.00), including installation, bases, excavation, filling, etc.

Item 5 500.00

PROVISIONAL SUMS FOR SELECTED SUBCONTRACT WORKS**Electrical installation, light fittings etc.**

- 2 Provide the sum of R15 000.00 (Fifteen Thousand) for internal and external electrical installation, distribution boards, switched sockets, light switches, certificate of compliance, etc.

Item 15 000.00

- 3 Profit and Attendance.

Item

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Section No. 1
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PROVISIONAL SUMS

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Bill No. 16

PROVISIONAL SUMS

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Bill No. 16

PROVISIONAL SUMS

SECTION SUMMARY - SECTION NO. 1 - BUILDING: EXISTING PAVILION				
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4	MASONRY	27		
5	WATERPROOFING	30		
6	ROOF COVERINGS	33		
7	CARPENTRY AND JOINERY	37		
8	CEILINGS AND PARTITIONS	40		
9	IRONMONGERY	43		
10	METALWORK	47		
11	PLASTERING	50		
12	TILING	53		
13	INTERNAL PLUMBING AND DRAINAGE	60		
14	PAINTWORK	65		
15	EXTERNAL PLUMBING AND DRAINAGE	70		
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C.2.2.B: BUILDING WORKS - SUMMARY

<i>SUB SECTION</i>	<i>DESCRIPTION</i>	<i>AMOUNT</i>
A	PREAMBLES	
B	ALTERATIONS	
C	NEW ADDITIONS	
TOTAL CARRIED FORWARD		

SUMMARY OF BILLS OF QUANTITIES

SUB SECTION	DESCRIPTION	AMOUNT
C.2.2.A	CIVIL WORKS	
C.2.2.B	BUILDING WORKS (ABLUTION)	
	TOTAL OF SCHEDULED WORK	
	10% CONTINGENCIES	
	SUB-TOTAL	
	VAT: Add VAT at the rate of 15% of the total	
	TENDER SUM CARRIED FORWARD TO C1.1 FORM OF OFFER	

DECLARATION

I/we, the undersigned, do hereby declare that these are the properly priced Bills of Quantities forming part C2.2 of this Contract Document upon which my/our tender for **UPGRADING OF A MULTI PURPOSE RUGBY AND SOCCER FACILITY IN HEIDELBERG** has been based.

Signed.....

Date.....

Name.....

Position.....

Enterprise Name.....