

Proposed New 4 Classrooms at Lesedi Secondary School, Donkerhoek, Tshwane**Bill of Quantities****Description: Complete Construction of New 4 Classrooms**

		BILL OF QUANTITIES		
DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BILL NO 1				
<u>EARTHWORKS</u>				
Excavation in earth not exceeding 2m deep				
1 Trenches	m ³	82		
Extra over trench and hole excavations in earth for excavation in				
2 Soft rock	m ³	3		
3 Hard rock	m ³	1		
Extra over all excavations for carting away				
4 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	25		
Risk of collapse of excavations				
5 Sides of trench and hole excavations not exceeding 1,5m deep	m ²	180		
Keeping excavations free of water				
6 Keeping excavations free of all water other than subterranean water	Item	1		
Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density in 150mm thick layers				
7 Backfilling to trenches, holes, etc	m ³	28		
Earth filling of G5 material supplied by the contractor and compacted in 150mm thick layers				
8 Under floors etc	m ³	196		
9 Under ramps	m ³	35		
Coarse river sand filling supplied by the contractor				
10 Under floors.	m ³	21		
Compaction of surfaces				
11 Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m ²	420		
SOIL POISONING				
Soil insecticide				
12 Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	420		
13 To bottoms and sides of trenches etc.	m ²	115		
TOTAL CARRIED FORWARD				

BILL NO 2				
CONCRETE, FORMWORK AND REINFORCEMENT				
REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
25MPa/19mm concrete				
1	Strip footings	m ³	21	
2	Bases	m ³	3	
REINFORCED CONCRETE				
30MPa/19mm concrete				
3	Surface beds on waterproofing	m ³	59	
CONCRETE SUNDRIES				
Finishing top surfaces of concrete smooth with a power float				
4	Surface beds, slabs, etc	m ²	420	
MOVEMENT JOINTS ETC				
Saw-cut joints				
5	35 x 3mm Saw cut joints on top of concrete	m	84	
REINFORCEMENT				
Fabric reinforcement				
6	Type R93 fabric reinforcement in concrete surface beds, slabs, etc	m ²	392	
TOTAL CARRIED FORWARD				

<u>BILL NO 3</u>				
<u>MASONRY</u>				
FOUNDATIONS				
Brickwork of NFX Bricks in class II mortar				
1	220mmm wall in foundations	m ²	59	
BRICKWORK SUNDRIES				
Brickwork reinforcement in foundations				
2	150mm Wide reinforcement built in horizontally	m	805	
SUPERSTRUCTURE				
Brickwork of NFP bricks in class II mortar				
3	220mm Thick brick walls	m ²	490	
4	Ditto to Gable ends	m ²	42	
BRICKWORK SUNDRIES				
Joint forming material in movement joints				
5	10mm Flexcell softboard built in vertically between concrete and brick surfaces	m ²	175	
Brickwork reinforcement				
6	150mm Wide reinforcement built in horizontally	m	1050	
Concrete prestressed fabricated lintels				
7	110 x 75mm Lintels in lengths not exceeding 3m	m	98	
TOTAL CARRIED FORWARD				

BILL NO 4
WATERPROOFING

DAMPPROOFING OF WALLS AND FLOORS

**One layer of 375 micron "Consol Plastics Brikgrip DPC"
embossed damp proof course**

1 Under surface beds

m² 275

**One layer of 250 micron "Consol Plastics Gunplas USB
Green" waterproof sheeting sealed at laps with "Gunplas
Pressure Sensitive Tape"**

2 Under surface beds

m² 420

TOTAL CARRIED FORWARD

BILL NO 5
ROOF COVERINGS

Factory color coated. IBR roofsheeting on 50x50 c-channel purlin at 600 centres on sasilation on 75 x 152mm c-channel,sitting on 900 centres rafters. As per engineer specification

1 Roof covering with 30 degrees pitch

m²

512

TOTAL CARRIED FORWARD

BILL NO 6				
<u>CARPENTRY AND JOINERY</u>				
DOORS, ETC				
Semi-Soid core masonite door				
1	Semi solid door 900 x 2100mm high	No	4	
FRAMED FRAMES, ETC				
Wrought meranti				
2	Heavy solid. 44 x 100mm Rebated timber frames to single door size 900 x 2100mm	No	4	
3	100mm High tile skirting including cutting tile	m	152	
Plate nailed timber roof truss construction				
4	Roof construction pitched one block classroom size 33.720 x 10.150mm and 25.290 x 10.150 average on plan and 3.255mm high overall including roof ventilators, wall plates, trusses, permanent bracing, purlins, tilting purlin at eaves with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties. Rafter end overhang is 1200mm and all exposed timbers at eaves are to be wrot, all as indicated on Architect's drawing.	m ²	512	
TOTAL CARRIED FORWARD				

BILL NO 7				
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>				
NAILED UP CEILINGS				
9,5mm "Rhino" gypsum plasterboard with taped and skimmed joints				
1	Ceilings including 38 x 38mm sawn softwood brander at 450mm centres or Similar approved	m ²	294	
Everite gypsum plasterboard cornices				
2	75mm Coved nu-cornices	m	152	
3	Extra over ceiling for 400 x 400mm trap door of wrought softwood rebated framing with sawn softwood cross brander covered with ceiling board and fitted flush in opening.	No	4	
Cement board finish, etc.				
4	12mm thick nutec fascia board	m	84	
5	12mm thick nutec barge board	m	35	
TOTAL CARRIED FORWARD				

BILL NO 8
METALWORK

**STAINLESS STEEL WINDOWS, SHOP FRONTS, DOORS,
ETC**

Stainless steel windows approved Client or architect frame sections, including all necessary fittings, ironmongery, etc and plugged to brickwork or concrete and sealing all round with approved silicone sealant (elsewhere), must include required glazing.

1 | 1143 x 2100mm window(W1)

Sundries, etc

2 | 2500 x 1200mm chalkboard

3 | 1200 x 900mm Pinboard

TOTAL CARRIED FORWARD

BILL NO 9
PLASTERING

SCREEDS

Screeds on concrete

1 25mm Thick on floors and landings

m² 379

INTERNAL PLASTER

Cement plaster on brickwork or concrete

2 On walls

m² 393

3 On narrow widths

m² 72

TOTAL CARRIED FORWARD

BILL NO 10

TILING

FLOOR TILING

**300X300X10mm 'vinly' tiles with adhesive
to sreed. Or similar approved(elsewhere measured)**

1 On floors and landings

m² 294

2 On narrow widths

m² 30

TOTAL CARRIED FORWARD

BILL NO 11				
PAINTWORK				
PAINTWORK, ETC TO NEW WORK ON				
FLOATED PLASTER SURFACES WITH				
Prepare and apply one alkali resistant primer to SABS 1414 and three finishing coats 'Plascon Double Velvet' acrylic emulsion paint to SABS 1586 Grade 1 or similarly or equally approved by Architect's or Client's specifications				
1	On internal walls	m ²	393	
2	On ceilings and beams internally	m ²	294	
Prepare and apply one coat masonry primer to SABS 1414 and three finishing coats 'Plascon Double Velvet' acrylic emulsion paint to SABS 1586 Grade 1 or similarly or equally approved by Architects or Client specifications				
3	On external walls	m ²	110	
WOOD SURFACES WITH				
One coat oil wood primer, one coat universal undercoat and three coats super universal enamel paint on				
4	Doors	m ²	18	
5	On door frames	m ²	11	
TOTAL CARRIED FORWARD				

<p><u>BILL NO 13</u> <u>PROVISIONAL SUMS ETC</u></p> <p>STEEL REINFORCEMENT</p> <p>Provide the sum of R250,000 (Two Hundred And Fifty Thousand Rand Only) for Installation Steel reinforcement as per appointed Structural Enginner.</p> <p>EXTERNAL WORKS</p> <p>Provide the sum of R150,000 (One Hundred And Fifty Thousand Rand Only) for External works</p> <p>ELECTRICAL INSTALLATION</p> <p>Provide the sum of R300,000 (Three Hundred Thousand Rand Only) for Electrical Installation</p> <p>IRONMONGERY</p> <p>Provide the sum of R10 000.00(Fifty Thousand Rand Only) for Installation of Ironmongery</p> <p>JOJO TANKS</p> <p>Provide the sum of R30 000.00(Thirty Thousand Rand Only) for Installation of Two 5000L JOJO Tanks.</p>	Item	1		

[illegible]