

Item No		Quantity	Rate	Amount
	<b><u>SECTION 1</u></b>			
	<b><u>BILL No. 1</u></b>			
	<b><u>PRELIMINARIES</u></b>			
1	<b>Site Establishment</b> F:..... V:..... T:.....	Item		
2	<b>Supervision</b> F:..... V:..... T:.....	Item		
3	<b>Guarantees and insurances</b> F:..... V:..... T:.....	Item		
4	<b>Plant and equipment</b> F:..... V:..... T:.....	Item		
5	<b>Safety and security</b> F:..... V:..... T:.....	Item		
6	<b>The Site: Existing premises occupied</b> F:..... V:..... T:.....	Item		
7	<b>Programme of the works</b> F:..... V:..... T:.....	Item		
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8	<b>Progress &amp; Technical Meetings</b> F:..... V:..... T:.....	Item		
9	<b>Samples of materials</b> F:..... V:..... T:.....	Item		
10	<b>Enclosure of the works</b> F:..... V:..... T:.....	Item		
11	<b>Main Notice Board</b> F:..... V:..... T:.....	Item		
12	<b>Temporary Services: Water</b> F:..... V:..... T:.....	Item		
13	<b>Temporary Services: Electricity</b> F:..... V:..... T:.....	Item		
14	<b>Temporary Services: Telecommunications</b> F:..... V:..... T:.....	Item		
15	<b>Temporary Services: Ablutions</b> F:..... V:..... T:.....	Item		
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**SPECIFIC PRELIMINARIES**

**16 LOCAL LABOUR**

It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate labour not be available within the locality, other may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The Contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilization of local labour in the construction process. In this regard, the Contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The Contractor shall, in general, maximize the involvement of the local community.

F:..... V:..... T:.....

Item

**17 Occupational Health and Safety Act No. 85 of 1993**

Bidders are to allow for costs in providing and implementing a "Construction Phase Safety, Health and Environmental Plan". Bidders are further reminded that it is their responsibility to amend their safety plan if the assessed risk of the work changes in the slightest manner.

F:..... V:..... T:.....

Item

**SUMMARY OF CATEGORIES**

**18 SUB - TOTAL: FIXED ITEMS**

Item

**19 SUB - TOTAL: VALUE - RELATED ITEMS**

Item

**20 SUB - TOTAL: TIME - RELATED ITEMS**

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**Responsibility for site**

The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above

**Explosives**

No explosives whatsoever may be used for demolition purposes unless otherwise stated

**General**

The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Principal Agent

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

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**"Taking out and removing doors, windows, etc"**

implies that the door, etc is to be carefully taken down together with the frame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing

**"Forming openings"** for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing

**"Making good"** implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades

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)

The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing

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**"Breaking down and removing"** walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for plaster or other finishings as described

Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained

**"Building up openings"** implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described.

**Removal of asbestos material**

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

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**The following shall apply in respect of asbestos removal**

The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

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**TEMPORARY BARRIERS, SCREENS, ETC**

**Temporary barriers, screens, etc including removal  
and allow for re-use**

- |   |   |    |     |
|---|---|----|-----|
| 1 | SANS approved weld mesh type temporary barrier fencing 1,8m high with shade cloth fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing | m  | 100 |
| 2 | Double gate size 3 x 1.8m high  | No | 1   |

**DEMOLISH**

**Demolish & remove existing**

- |   |  |    |   |
|---|--|----|---|
| 3 | Single storey building comprising blockwork under corrugated metal roof sheeting, size 276m2 and grub up foundations and remove from site and fill hole with clean earth well watered and compacted in 150mm layers. (3 Classroom Block) | No | 1 |
|---|--|----|---|

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<b><u>SECTION 3</u></b>			
<b><u>BILL No. 1</u></b>			
<b><u>WALKWAYS, RAMPS, STEPS, ETC</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>THE FOLLOWING IN UNCOVERED WALKWAYS</u></b>			
<b><u>Excavation not exceeding 2m deep</u></b>			
1	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	8
<b><u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u></b>			
2	Off site to a dumping site to be found by the Contractor.	m3	8
<b><u>Filling supplied by the contractor under concrete pavement, etc</u></b>			
3	G7 Subgrade material, compacted to 93% Mod AASHTO density	m3	16
4	G5 Natural subbase material, compacted to 95% Mod AASHTO density	m3	16
<b><u>Compaction of surfaces:</u></b>			
5	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 90% Mod AASHTO density.	m2	53
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<b><u>Prescribed density tests on filling:</u></b>					
6	In-situ dry density test.	No	2		
<b><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u></b>					
7	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	53		
<b><u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u></b>					
8	Under surface beds.	m2	53		
<b><u>CONCRETE PAVING BLOCKS</u></b>					
<b><u>Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u></b>					
9	Paving to walk ways areas, etc laid to falls.	m2	53		
10	Extra over ordinary paving for 200mm wide block-on-flat header course edging circular on plan on 100mm thick mortar bed including unreinforced concrete haunching along outside edge.	m	5		
<b><u>Kerbing</u></b>					
<b><u>Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc. (Refer to drawing no. SRK/IDT/005 attached)</u></b>					
11	Figure 6 Barrier kerb size 150 x 300mm high channel with unreinforced concrete haunching including excavation, backfilling, etc.	m	70		
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Uncovered walkways, Ramps, Steps, etc

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Uncovered walkways, Ramps, Steps, etc

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<b><u>BILL No. 2</u></b>			
<b><u>STORMWATER CHANNELS</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
<b><u>STORMWATER APRONS</u></b>			
<u>Cast in-situ Ref 193 mesh reinforced concrete (25MPa) apron, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 1.8m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>			
1	900 x 100mm apron laid in position in ground in 1800mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating, etc	m	168
<b><u>STORMWATER CHANNELS</u></b>			
<u>Cast in-situ Ref 193 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 1.8m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>			
2	900 x 100mm V' channel 50mm deep in centre laid in position in ground in 1800mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating, etc	m	90
3	Extra for 700mm angle	No	6
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Stormwater reticulation			

4    Extra for forming 200mm thick 700mm wide spreader  
with 200mm high edges fanning out to 1 960mm width  
at furthest end with hard burnt bricks pitching cast in ass  
diffusers including working off concrete to a smooth  
finish and draining onto natural ground with 150 -  
200mm diameter loose stones

No

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Stormwater reticulation

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<b><u>BILL No. 3</u></b>			
<b><u>RAINWATER TANKS AND STANDS</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Density testing on filling:</u>			
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.			
<b><u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u></b>			
<b><u>Excavation in earth not exceeding 2m deep:</u></b>			
1	Trenches. m3	47	
<b><u>Extra over trench and hole excavations in earth for excavation:</u></b>			
2	Soft rock. m3	5	
3	Hard rock. m3	2	
<b><u>Extra over all excavations for carting away:</u></b>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor. m3	25	
<b><u>Risk of collapse of excavations:</u></b>			
5	Sides of trench and hole excavations not exceeding 1,5m deep. m2	95	
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	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93%:</u></b>				
6	Backfilling to trenches, holes, etc.	m3	24		
	<b><u>Compaction of surfaces</u></b>				
7	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 90% Mod AASHTO density.	m2	37		
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>25Mpa/19mm Concrete</u></b>				
8	Strip footings.	m3	12		
	<b><u>REINFORCED CONCRETE</u></b>				
	<b><u>25 MPa/19mm Concrete:</u></b>				
9	Tank concrete slab.	m3	4		
	<b><u>FINISHING TOP SURFACE OF CONCRETE</u></b>				
	<b><u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u></b>				
10	Surface beds, slabs, etc.	m2	37		
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**ROUGH FORMWORK (DEGREE OF ACCURACY III)**

**Rough Formwork to Sides:**

- |    |   |   |    |  |
|----|---|---|----|--|
| 11 | Edges, risers, ends and reveals not exceeding 300mm high or wide. | m | 59 |  |
|----|---|---|----|--|

**REINFORCEMENT (PROVISIONAL)**

- |    |   |    |    |  |
|----|---|----|----|--|
| 12 | Type 395 fabric reinforcement in concrete surface beds, slabs, etc. | m2 | 37 |  |
|----|---|----|----|--|

**MASONRY**

**BRICKWORK IN FOUNDATIONS (PROVISIONAL)**

**Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:**

- |    |                  |    |    |  |
|----|------------------|----|----|--|
| 13 | One brick walls. | m2 | 21 |  |
|----|------------------|----|----|--|

**BRICKWORK IN SUPERSTRUCTURE**

**Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:**

- |    |                  |    |    |  |
|----|------------------|----|----|--|
| 14 | One brick walls. | m2 | 36 |  |
|----|------------------|----|----|--|

**BRICKWORK AND BLOCKWORK SUNDRIES**

**Brickwork reinforcement:**

- |    |   |   |     |  |
|----|---|---|-----|--|
| 15 | 230mm Wide reinforcement built in horizontally. | m | 356 |  |
| 16 | Ditto, but in foundations (Provisional).        | m | 237 |  |

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**FACE BRICKWORK**

**"Roan satin FBX " clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2:**

17	Extra over brickwork for face brickwork externally.	m2	36	
----	---	----	----	--

**PLUMBING AND DRAINAGE**

**TANKS ETC**

**Plastic water tanks etc:**

18	5000 Litre light duty cylindrical tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete.	No	6	
19	Hole top of tank for 100mm pipe.	No	6	

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	<b><u>BILL No. 1</u></b>			
	<b><u>PROVISIONAL SUMS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<p>Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.</p> <p>Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.</p> <p>NOTE: Shop drawings / Specifications will be required for approval by the Principal Agent BEFORE temporary structures are build.</p>			
	<b><u>ELECTRICAL INSTALLATION</u></b>			
1	Provide the sum of R90 000.00 for Electrical Installation	Item		90 000.00
2	Add: Mark-up		%	
	<b><u>MODULAR STRUCTURES</u></b>			
3	<p>Provide the sum of R2,400, 000.00 (Two Million and Four Hundred Thousand Rand) for the provision and installation of 6 (Six) Modular classrooms (<b>60m2 per classroom</b>) on Steel Chassis. Modular structures complete comprising of:</p> <ul style="list-style-type: none"> <li>Walls made of 40mm thick polystyrene panels clad with 0.4mm thick pre-painted Aluzinc sheeting on both sides</li> <li>1.1 x 1.2m high (7no. in total) Casement type</li> </ul>			
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**BUDGETARY ALLOWANCES**

**The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:**

6	Provide the sum of R21 000.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 000.00 a month for the full contract duration.	Item	21 000.00
7	Add: Mark-up	%	

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Provisional Sums

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SUB-TOTAL		R
<b><u>CONTINGENCIES</u></b>		
Allow ten per cent (10%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		
SUB-TOTAL		R
Add Value Added Tax at the rate of 15%		R
Carried to Form of Offer and Acceptance		
		R