

# **SUPPLEMENTARY PREAMBLES TO ALL TRADES**

## **GENERAL PREAMBLES**

The Tenderer is referred to the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors (1999 Edition), which are to be read in conjunction with and shall apply to all items in these Bills of Quantities and supplemented by the following Supplementary Preambles as well as all supplementary documentation referred to in the Bills of Quantities and all annexure appended thereto.

Where Model Preambles for Trades and Supplementary Preambles are in conflict, the Supplementary Preamble shall take precedence.

## **SUPPLEMENTARY PREAMBLES**

The following amplifications, additions and amendments to the Model Preambles for Trades shall constitute the Supplementary Preambles.

### **1. MATERIALS AND WORKMANSHIP GENERALLY**

The standard of workmanship and the quality of materials to be utilised throughout this Contract shall be the best of their respective kinds and shall comply in all respects with the latest South African Bureau of Standards Specifications, Codes of practice, co-ordinating Specifications and Standard methods or where not available, with the latest relevant British Standards.

NOTE: All references to Standards are to signify the latest amendments or issue thereof. No substitutes whatsoever shall be permitted from those materials specified and any work, which is not of the highest standard, shall be rejected and required to be re-done at the Contractor's expense. Furthermore, references to "SABS No" shall mean the "South African Bureau of Standards Specification No".

### **2. RATES**

All rates inserted in the Bills of Quantities shall cover all costs, charges and profit that may be considered necessary for the carrying out and observance for the provisions of these "Preambles to all Trades".

The Tenderer shall insert the amount required against each item, which he wishes to price and not insert a lump sum covering a series of items. Only such priced items shall be considered in respect of any adjustment to the Contract Sum. Items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

### **3. TRADE NAMES, ETC.**

All materials, fittings, finishings, etc. specified under a "Trade Name", catalogue number or reference shall be either exactly as described or of equal quality, specification and weight to those described. The Architect's written approval must be obtained for any departure from the specification before the submission of tenders, failing which specified materials, fittings, finishings, etc. shall be deemed to have been allowed for in the tenders.

### **4. APPROVED**

"Approved" means approved by the Architect in writing.

### **5. NET MEASUREMENTS**

Unless otherwise stated herein, all work is measured net as fixed in position, in accordance with the "Standard System of Measuring Builder's Work in South Africa" - **Sixth Edition**, no allowance being made for cutting and waste. The term "measured net" means the finished surface or quantity, i.e. with all wants deducted and no allowance made for passings and laps except where otherwise described.

To assist the Contractor certain items may have the words "Measured Net" after the respective descriptions, but it is to be clearly understood that this practice does not established a precedent.

## **6. DITTO**

"Ditto....." shall mean as the foregoing item plus the new qualification. "Ditto, but..." or "Ditto .....ditto" shall mean as the foregoing item but a substitute of the new qualification for the relevant clause in the foregoing item.

## **7. NOMINAL SIZES**

Where a component is specified as a nominal size the onus is on the Contractor to establish from the manufacturers the exact size or the likely size variation.

## **EARTHWORKS**

### **Generally**

No formwork or working space shall be measured to the sides of concrete wall footings, column bases, etc. will be measured and paid for only if specifically instructed by the Engineer as being required, and if the Contractor over excavates, any formwork necessary will be to his account. Likewise the backfilling to such over-excavated areas will be to his account and shall be compacted to the same degree and in the same manner as the backfilling to the remainder of such excavation.

### **Site Clearance**

"Clear Site" shall include for digging up and removing all rubbish, vegetable soil and substance from the area of the site to be built upon, removing all small trees, shrubs, etc. having a circumference of less than 200mm measured at a height of 1m above ground level including grubbing up all roots and roughly levelling and carting away debris to a site to be found by the Contractor.

### **Working Space**

No working space shall be measured for trenches not exceeding 500mm deep.

No working space shall be measured where face of measured excavation exceeds 200mm from brick or block walls.

Working space for insertion and removal of formwork will be measured only if the use of formwork is specifically required by the Engineer and the face of measured excavation exceeds 300mm from the concrete face. No working space shall be measured for concrete work where formwork is not specifically required by the engineer.

No claim will be considered for any working space to the sides of catch pits or manholes irrespective of their depth and the contractor shall allow in his rates for building overhand or excavating as required.

### **Carting away of excavated material**

Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site, and shall be deemed to include for all multiple handling.

### **Filling, etc.**

Filling over site, under floors and backfilling to excavations shall be of suitable earth free from clay, vegetable matter, large stones, etc., spread, leveled, watered and consolidated in layers not exceeding 150mm thick. Unless otherwise described filling shall be of material having a maximum plasticity index B10 and compacted to a minimum density of 95% Mod. AASHTO or as specifically specified otherwise in the description of the Bills of Quantities.

Where material of different qualities are present in the excavations, the contractor shall, where directed select the better materials for placing in fill.

In addition to the requirements of the model preamble such better material shall exclude boulders or broken rocks exceeding 100mm and shall normally be placed in filling under floors, etc.

The contractor's rates shall include selection where necessary.

**Soil poisoning**

The poisoning of ground against ants must be executed by an approved firm of specialists under a ten year written guarantee.

**Computation of Quantities**

Earthworks will be measured by volume once only in excavation. The volumes handled will be computed from the difference in elevation between the original ground levels and the specified earthworks levels.

**Prices of excavation**

Prices for all items of excavation shall include for digging out, any necessary staging required, forming to falls, slopes, curves, etc., trimming sides and stepping, levelling and ramming bottoms and for watering same to the satisfaction of the Architect or Engineer if so directed.

Prices shall include for any extra labour required in recommencing excavation to make it deeper or wider if the Architect or Engineer so directs.

Prices shall also include for bulking after excavation and consolidation or filling and for multiple handling of excavated material as no allowance for bulking or consolidation will be made.

**CONCRETE, FORMWORK AND REINFORCEMENT****Concrete**

All concrete work shall be done according to SABS 1200G

The concrete mix design of all concrete elements to be supplied to the Engineer for approval at least 4 weeks before concrete is required on site.

Maximum water cement for all reinforced concrete shall be 0,53

All casting procedures, construction methods and position of construction joints shall be submitted to the Engineer prior to the commencement of the project.

The contractor must co-ordinate all services drawings for details and positions of openings and sleeves required for services. Only opening larger than 100mm diameter or 100 x 100mm will be reflected on the structural engineers drawings.

The strength of concrete cover blocks shall be equal to or greater than the structural element in which they are used.

**Formwork**

Unless otherwise stated the quality of all formwork shall be such that the finished surface of the concrete is "Smooth" and accurate to degree of Accuracy 11.

Column formwork is measured to the underside of slabs except where the beams over are larger than the columns. In this instance the column formwork is measured to the underside of the beams and the beam formwork is measured over the columns. All other beam formwork is measured between columns. No deduction or adjustments is made for the intersection of beams and columns. Formwork to soffits of slabs under inverted beams is not separately measured. Formwork to sides and soffits of beams includes formwork to slab edges where flush with beam sides. Formwork to items measured in square metres includes narrow widths, in particular formwork to sides and soffits of beams and sides of columns.

Formwork to sides of bases, piles 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**

The contractor shall give the at least 48 hours notice to the Engineer for steel inspections that are required

No heating, flame cutting or welding of reinforcement shall be allowed without the written approval of the Engineer.

## **Prices of Concrete, Formwork and Reinforcement**

### **(i) In Situ Concrete**

Prices of all in situ concrete shall include for mixing, hoisting and lowering to all levels, placing, working around reinforcement, vibrating, compacting, pumping, etc.

### **(ii) Formwork**

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs, etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

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".

The prices of all formwork shall include for use, waste, all straight, square and raking cutting, splayed edges, intersections, struts, hangers, etc., horsing up, wedging, maintaining, easing, striking and removing as and when directed, except where described as "Permanent". The formwork is measured to the actual nett surface of the concrete to be supported.

Prices for smooth formwork shall include for forming 25 x 25mm chamfers to all visible corners in collaboration with the Architect as well as drip grooves where required. No separate item shall be measured for this.

### **(iii) Steel Reinforcement**

The prices of steel reinforcement shall include for the supply, cutting to lengths, bending to the exact dimensions and shapes shown on the drawings and schedules, lowering or hoisting to the various floor levels, placing and wiring in position with and including 1,60 or 1,25 mm diameter annealed wire or by the use of suitable clips and for the use of all necessary spacers, lifting blocks, etc., and maintaining in position while the concrete is being deposited. Prices of fabric reinforcement shall include for unrolling, cutting, bending, and binding wire, and for 300 mm (minimum) side and end laps, hoisting or lowering and fixing and maintaining in position complete.

## **Cost of Tests**

The contractor shall supply in good time, for approval, the samples of the materials and the mix he proposes to use for the concrete and shall furnish evidence that the materials comply with the requirements of clauses 3.3 and 3.4 of S.A.B.S. 1200G and the results of the test cubes submitted to an approved laboratory complies with the requirements specified.

The costs of making, storing and testing of concrete test cubes shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports of the tests to the Architect, Engineer or Principal Agent. The testing shall be undertaken by an independent firm or

institution nominated by the Contractor to the approval of the Architect, Engineer or Principal Agent. (Test cubes are measured separately).

### **General**

It must be clearly understood that any structural concrete, which does not comply with the results required may have to be removed at the Engineers discretion and reconstructed entirely at the contractor's expense, including the replacement of steel reinforcement.

## **BRICKWORK**

### **General**

Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.

Descriptions of hollow walls shall be deemed to include leaving open perpend joints of the bottom course of the external skin immediately above the damp-proof course for minimum height of 50mm as weep holes, at intervals not exceeding 1m.

Cavity of hollow walls shall be kept clear of mortar dropping. The contractor will be required to provide a methodology on how this will be achieved.

Cement used for mortar shall be 'Eagle plus' or equally approved.

All joints between brickwork and concrete shall be filled solid with mortar to the full width of the brickwork.

### **Clay Bricks**

Stock bricks generally shall be good, hard, sound, well burnt clay stocks, even in size and shape and equal to samples to be submitted to and approved by the Architect. No chipped or damaged bricks shall be allowed. Brickwork shall generally be in stretcher bond, unless stated otherwise.

### **Face Brickwork**

All faced work, unless otherwise described, is to be pointed to match the pointing on existing brickwork as the work proceeds.

All Faced or / fair faced work, unless otherwise described is to be pointed with keyed horizontal and vertical joints.

### **Wire Ties**

Where brickwork is required to be in two skins prices shall include for 3,5 mm (minimum) modified P.W.D. type galvanised steel wire ties, at a rate of not less than five per square metre.

Where brickwork is described as being in hollow walls prices shall include for 3,5 mm (minimum) Butterfly type galvanised steel wire ties, at a rate of not less than five per square metre.

Where brickwork is described as being in lining to concrete, prices shall include for 3,5 mm (minimum) Butterfly type galvanised steel wire ties, at a rate of not less than five per square metre, and for fixing inside formwork, embedding in concrete and for building into brickwork. Additional ties shall be provided within 230 mm of any opening at every fourth course.

In all cases the wire ties shall comply with SABS 28.

### **Builder's Work to Services**

No separate items shall be measured for building in electrical boards, switchboards, pipes, etc, but the Contractor shall allow in his price of brickwork or block work for building in distribution boards, switchboxes, lift indicator panels, etc., or leaving recesses for same, cutting and fitting around pipes and flushing solid all chases in cement mortar.

## **Prices**

The prices for brickwork, blockwork, etc., shall include for all cutting, plumbing angles, forming reveals, weep holes, waste, and for wedging and pinning to underside of steel or concrete beams, concrete slabs, etc., and fitting between steel or concrete columns, etc.

Prices shall also include for soaking bricks in water immediately before laying, hoisting bricks, blocks and mortar, etc., to various floor levels and for raking out joints of brickwork to be plastered or tiled.

## **Cleaning Off**

Great care shall be taken to keep face brickwork, quarry tiles, etc., free from surplus mortar as the work proceeds and at completion they shall be cleaned off with spirits of salts and water or other approved cleaning materials. Rates shall include for this.

## **WATERPROOFING**

### **Waterproofing to Roofs, Basements, Etc.**

Waterproofing shall be executed by an approved specialist firm in accordance with the relevant provisions of Chapter 9 of the Standard Building Regulations. Prices shall include for protecting from damage or injury to the finished work. All surfaces to be covered shall be perfectly dry and swept clean of all chips, dust, etc., immediately before the covering is laid.

All waterproofing to flat areas to be tested for water tightness by ponding the waterproofed surface for a period of at least 48 hours before application of protection layers or finishes over. Should any leaks occur the Contractor shall remedy them at his own expense.

Waterproofing is to be laid in accordance with the manufacturers instructions by a contractor approved by the manufacturer. All waterproofing shall be laid under a minimum ten year maintenance free guarantee against leaks.

## **METALWORK**

### **Galvanising of Steel**

All surfaces covered with galvanized coating shall have a coating with a mass of not less than 650g/m<sup>2</sup>.

## **ALUMINIUM AND ANODISED ALUMINIUM**

### **Materials**

#### **Extrusions**

Extruded Aluminium sections shall be fabricated from alloy 6063 or 6261 in temper T5 or T6 all in accordance with the latest edition of BS1474. —“Wrought aluminium and aluminium alloys for general Engineering purposes.”

The Extruded section shall be of such quality and strength that the section properties of the load bearing profiles meet the requirements as laid down in paragraph 3.0.

#### **Sheets**

Ancillary members such as sills, flashings, infill panels and the like which may be formed from flat sheet material shall be fabricated from aluminium alloy 1200 or 3004 Or 5251 of appropriate temper all in accordance with the latest edition of BS 1470 — “Aluminium Alloys for sheet products.”

#### **Glass & Glazing**

Glazing shall be executed strictly in conformance with glass manufacturer's recommendations and all in accordance with National Building Regulations Part N, SABS 0137, SABS 0400, SABS 1263, and AAAMSA Selection Guide for Safety Glazing Materials.

A warranty is to be provided that the manufacturer of the laminated safety glass and/or the hermetically sealed glazing units warrants the product against delamination and colour degradation for a period of not less than 5 (five) years.

In case of structural glazing written proof is to be provided that all stages of fabrication and installation have been executed with disciplined quality assurance in accordance with the relevant part of SABS ISO9000.

Written confirmation of compatibility of structural sealant with extrusion surface, glazing tape and glass is to be supplied by the structural sealant manufacturer together with the relevant test reports regarding the adhesion of the sealant to the aluminium frame in accordance with ASTM/C 794-80 (Standard Test for Adhesion-in-Peel of Elastomeric joint Sealants).

## **Finishes**

### **Anodising**

All anodising shall be executed in strict adherence to SABS 999

A certificate of conformance is to be supplied with each delivery that the anodized materials meet with SABS 999 in all aspects.

### **Powder Coating**

All powder coating shall be in strict accordance with SABS 1796:2001.

All powder coating shall be executed only by applicators approved by the specified powder manufacturers and shall be executed strictly in conformance with SABS 1578 part 1 and 2.

A guarantee of no less than 15 years is to be provided against peeling and discolouration.

## **Construction**

### **Design**

Construction shall be of sufficient strength, stiffness and weather tightness to withstand the following imposed loads and conditions:

#### **Wind loading**

The wind loading is to comply with SABS 0160 – Code of Practice for the General Procedures and Loading adopted in the Design of Buildings. No member is to deflect more than the lesser of 20mm or 1/175 span at right angles to the plane of the glass and 3mm or 1/400 span in the plane of the glass, all in accordance with SABS 0160. The installed window is to be only supported at sides and is to be in no way supported or dependent on the wall under.

#### **Water Resistance**

300 Pascals. There is to be no leakage to the interior when subject to 0,05 litres water/sec/m<sup>2</sup> spray on the surface of the glass at the foregoing differential pressure.

#### **Air Infiltration**

75 Pascals. At this pressure the maximum infiltration to the interior shall not exceed 2,5 litres/sec/metre of crack length.

#### **Thermal Load**

Joints and fixings to accommodate thermal expansion over normal temperature ranges in South Africa.

Construction shall comply with the minimum performance requirement contained in the SABS and International Codes and Test Procedures listed in the section "References" in that specification.

The manufacturer shall at all times ensure that contact between incompatible materials shall be prevented, with particular reference to the joint between sealer and substrates or bondbreakers.

### **Manufacturer**

Joints in frames and sashes shall be made by mechanical means and are to be sealed to prevent water penetration.

Final products shall be free from all sharp edges, burring and the like.

Hardware and fittings shall be removable without removing the aluminium frames from the structure and must be compatible with the aluminium framing.

Sliding members shall be constructed so that no metal sliding contact occurs.

### **Fittings**

Weathersealing shall be of materials that are compatible with aluminium and shall be such that any degradation, shrinking, warping or adherence to sliding or closing surfaces does not impair the performance of the installation.

Glazing beads, gaskets and glazing compounds shall be of materials that are compatible with the aluminium finishes, the glass and other glazing materials . Putty glazing is not permitted.

Hardware, bearing devices and fittings in general must be made of materials resistant to atmospheric corrosion and shall be of a design so as to be accessible for adjustment, repair and replacement after the windows etc. have been installed.

Fastenings shall be of material which is compatible with aluminium and aluminium finishes.

### **Installation**

Sizes are approximate only and site measurements must be taken before fabrication. Due allowance must be made for tolerance in accordance with the Architect's details.

The aluminum frames and windows shall be installed such that they are securely anchored, sealed and undamaged and meet in all respects with the performance criteria.

The glass shall be installed strictly in accordance with the glass manufacturer's specifications.

The frames and glass are to be installed in accordance with the main contractor's building programme and the exposed aluminum is to be protected by means of low tack adhesive tape against mortar droppings, paint and other non-mechanical damage.

The sub-contractor shall be responsible for any damages caused by him to the building and other services. No finished surfaces may be chased without written permission of the Architect. No cutting of the structural concrete will be permitted unless the written permission of the structural Engineer has been obtained. The sub-contractor will be held liable for any damage due to non-compliance with the above. Immediately after acceptance of the Tender, the Sub-contractor shall inform the main Contractor of all the requirements for all the building work and also at regular intervals thereafter to enable the main Contractor to be well informed in advance of all structural requirements for the aluminium doors and windows.

Inspection of installed frames and glass shall, amongst others, be carried out according to the following criteria:

#### Scratches and Blemishes

This inspection will be viewed at a distance of two metres under normal lighting conditions, i.e. reasonable lighting conditions under which the project is normally viewed.

#### Aluminium Work



Scratches in aluminium are defined as being a mark on the aluminium surface which penetrates the powder coated or anodised surface, thereby exposing the base metal.

If visible when viewed from a distance of two metres under normal lighting conditions, the product may be rejected. Flaws/Stains, paint runs or other indication that mars the aesthetic appearance of aluminium which is visible when viewed from a distance of two metres under normal lighting conditions may cause the product to be rejected.

### Glass

Scratches in glass which will be acceptable are those which are under 75mm long in any area, and those which are longer than 75mm which do not encroach more than 75mm from the edge.

In laminated glass interlayer bidders larger than 1.5mm diameter will not be allowed. Larger clusters or close spacing of smaller bubbles will also be disallowed.

## **PLASTERING**

### **Preparation of Surfaces**

Prior to the application of floor finishes, screeds, plaster finishes, etc., the surfaces of the new or existing concrete, brickwork, etc., shall be thoroughly cleaned, chipped, hacked, sloshed, etc., as necessary to ensure a satisfactory bond. The Contractor will be held entirely responsible for the proper and adequate preparation of the surfaces and any work, which results in failure in this regard, shall be made good at the Contractor's expense to the satisfaction of the Architect.

## **PLUMBING AND DRAINAGE**

Where pipes or gutters are fixed to walls, soffits of slabs, roof timbers, etc., descriptions shall be deemed to include for all necessary brackets, holderbats, hangers, pipe clips, etc., and for plugging and screwing or for cutting and pinning or building in tails of holderbats, hangers, etc., to brickwork or concrete in 1:3 cement mortar and for making good.

No distinction is made between pipes fixed to different elements, cut in, chased in ceiling, built in, etc.

Prices for all piping laid in ground, manholes, etc, shall include for excavations in "earth" as described, bedding, backfilling and compaction and distributing surplus material on site and shall be deemed to include additional excavation and backfilling necessary at joints, risk of collapse of excavations and keeping excavation free of water (carting away and removing off site and imported backfilling will, if necessary, be measured separately).

Prices of all taps, valves, etc. are deemed to include in all cases for the necessary couplings, adaptors, etc. in joining to pipes.

Where pipes of different sizes are "teed off" a main branch, reducing tees (junctions) have been measured and the contractor must allow in his rates either for a reducing tee (junction) or a combination of a tee (junction) and bush and on re-measurement only reducing tees (junctions) irrespective of whether the contractor has used a combination of a tee (junction) and bush.

Where fittings have reduced ends or branches, the fittings are described as "reduced" and the largest end or branch has been stated. The Contractor may use equal fittings with reducing cones or bushings if he so desires, but should he elect to do so, no claim for extras in this connection will be entertained.

## **TILING**

### **Tiles, mosaic, etc.**

Where described that tiles are to be laid on cement plaster or screed (plaster or screed elsewhere) tiles are to be fixed with an approved adhesive.

### **Ceramic floor tiling**

Glazed and unglazed ceramic floor tiles, fittings and beddings shall comply with S.A.B.S 149. Where tiles are fixed to screed with an adhesive, the adhesive shall be as recommended by the manufacturer of the tiles. Joints shall be 10 mm wide, straight, continuous and flush pointed with an approved tinted grouting compound.

#### **Terrazzo floor tiling**

Joints to terrazzo tile shall be 6mm wide, straight, continuous and flush pointed with an approved tinting grouting compound.

#### **P.C. Amounts**

Where tiles are provided under a prime cost item an item is provided for waste. The provision for waste will be expended pro-rata to the amount provided in the prime cost sum which is based on net tiled areas. The contractor will be required to make good any shortfall in the ordered quantity at his own expense.

#### **PAINTWORK**

##### **Materials**

For any particular work the priming coat and subsequent coats of paint shall be executed with paints from the same manufacturer.

##### **Preparatory Work**

The Contractor will be held entirely responsible for the proper and adequate preparation of the surfaces and any work, which fails to meet the manufacturer's recommendations, must be made good at the Contractor's expense to the satisfaction of the Architect.

##### **Descriptions**

Descriptions shall be deemed to include for cutting in of contrasting colours or paints and masking as required.

Where diameters for pipes are stated these are nominal internal diameters.

Descriptions of paintwork and preparatory work to profiled surfaces which state that the work has been measured on flat shall be deemed to include all areas of the profiled surfaces including projections, grooves, narrow girths, etc.

Unless stated otherwise all preparatory and paintwork rates shall be deemed to include for work to narrow girths, etc.

#### **GENERAL**

##### **General**

The Contractor shall provide all reasonable measures to protect / isolate the works under construction, the existing works and/or sections of the occupied works and remove such measures upon completion.

Furthermore, all completed work, work-in-progress and existing work shall be continuously kept clean and in a proper manner with least disturbance.

The Contractor shall execute the works with a minimum of disturbance to adjoining premises, any parts of works already handed over and the occupants of those premises and/or parts.

## STRUCTURAL STEEL

### SUPPLEMENTARY PREAMBLES

The Tenderer is to take note of the following. Pricing shall be deemed to be fully inclusive in compliance thereof.

All material, fabrication and erection of structural steel to comply with SABS 0162 - 1984 and SABS 1200H - 1983 as well as the project specifications.

Welding shall conform to AWS D1. 1-90 specifications.

Butt-welds shall develop the full strength of the elements joined.

All welding to be 6mm continuous fillet weld unless otherwise shown.

Welding electrode to be E70 XX (U.O.N).

All dimensions shall be checked on site by the steel work contractor before shop drawings commence. Any discrepancies shall be brought to the attention of the Engineer for approval before fabrication.

All structural work shall be GRADE 300W or 355WA minimum.

All structural bolts shall be GRADE 8.8 (U.O.N). A minimum of two bolts per connection will be used (U.O.N).

Where temporary bracing or propping is necessary, the contractor shall be responsible for the design, maintenance, and removal of such supports.

If splices in steel members are required for transport or manufacture, proposals for this will be submitted to the Engineer for approval.

HSFG bolts are to be tightened by the "turn of the nut" method as per SABS 0162 PART 1-1993.

All friction surfaces are to be blast-cleaned and unpainted and must be protected against corrosion until the connection is made. The contractor must supply a method statement to the Engineer for approval.

All painting must comply with SABS 1200 HC

Corrosion protection shall consist of hot dip galvanising in accordance with SABS 763 (LATEST EDITION).

The subcontractor shall submit shop drawings to the Engineer for approval prior to manufacture. Only structural sizes, connections and splices will be checked. Final dimensions and fitting of members shall remain the Contractor's responsibility. The subcontractor shall allow for copies of approved shop drawings to be provided to the Contractor, Engineer and Quantity Surveyor.

The subcontractor is responsible for stabilising the structure and maintaining it in the correct position during erection.

Structural steelwork shall be cleaned by the Manufacturer prior to transportation to site.

No site cutting, drilling, or welding will be permitted without prior consent from the Engineer. Rates however shall include allowance for all site cutting, drilling or welding as deemed necessary.

Hot dipped galvanising to structural steel to allow for a minimum life expectancy of twenty-five (25) year for the structural steel.

All bolts besides anchor bolts and high tensile bolts have been included in the structural steel quantities below and have not been measured separately.

Bolts shall not have threads within the shear planes.

All holes to be drilled at standard back mark.

**BILLS OF QUANTITIES:  
PRINCIPAL CONTRACT**

**DBSA SCHOOLS UPGRADE**

**EARLY CHILDHOOD DEVELOPMENT PROGRAMME**

**NONDWENI PRIMARY  
SCHOOL**

**TENDER BILLS**

**JUNE 2022**



**SECTION NO. 1**  
**PRELIMINARIES**

Amount

**SECTION NO. 1****PRELIMINARIES****BUILDING AGREEMENT AND PRELIMINARIES****SECTION A: PRINCIPAL BUILDING AGREEMENT****NOTES**

1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.

2. The Preliminaries shall be JBCC Series, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.

3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.

4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.

5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.

6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

8. Where any item is not relevant to this specific contract, such item is marked N/A.

9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

Carried To Section Summary

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<b><u>DEFINITIONS</u></b>		
1	Definitions and interpretation (Clause 1).	Item
<b><u>OBJECTIVE AND PREPARATION</u></b>		
2	Offer, acceptance and performance (Clause 2).	Item
3	Documents (Clause 3).	
	Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'	Item
4	Design responsibility (Clause 4).	
	Clause 4.1 is amended by adding the following: 'The Contractor shall in accordance with Annexure 'D' indemnify and hold free the Employer and his agents from responsibility for any claim or proceeding whatsoever due to fault in the design, detailing, calculation etc., to the extent undertaken by the Contractor.'	
	Clause 4.2 is amended by adding the adding the following: 'The Sub-contractors shall in accordance with Annexure 'D' indemnify and hold free the Employer or his agents and the Contractor from responsibility for any claim or proceeding whatsoever due to fault in the design, detailing, calculations, etc., to the extent undertaken by the Sub-contractor/s.'	Item
5	Employer's agents (Clause 5).	Item
6	Site representative (Clause 6).	Item
7	Compliance with regulations (Clause 7).	
	Without limiting the generality of the provisions of clause 7.0 of the agreement, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993 in which it is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The principal agent shall, on behalf of the employer, issue such health and safety specification and the contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification, provided such provisions are reasonable in terms of the act and the regulations.	Item
8	Works risk (Clause 8)	Item
9	Indemnities (Clause 9).	
	Clause 9.1.1 is deleted and substituted with: 'Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.	Item
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10	Works insurances (Clause 10).	Item	
11	Liability insurances (Clause 11).	Item	
12	Effecting insurances (Clause 12).	Item	
13	No clause (Clause 13).	Item	
14	Security (Clause 14).		
	<p>Clause 14.0 is amended by the addition of the following Clauses: 14.9 The guarantee provided by the Contractor's Guarantor shall have an expiry date (if stated) no less than 3 months after the practical completion date and shall be extended accordingly should the practical completion date be extended.</p> <p>14.10 Should the Contractor's security lapse and not be renewed by the Contractor any time prior to the payment of final payment certificate, then:</p> <p>14.10.1 An amount equal to five percent (5%) of the Contract Sum shall be withheld from the Contractor until security is reinstated or the final payment certificate is issued, whichever comes first. 14.10.2 The Contractor shall not be compensated with interest on the withheld amount stated in 14.10.1.</p>	Item	
	<b><u>EXECUTION</u></b>		
15	Preparation for and execution of the works (Clause 15).	Item	
16	Access to the works (Clause 16).		
	<p>It shall be the responsibility of the contractor to obtain all necessary statutory permissions required relating to the use of pavements, roadways and access to the Site, and the tenderer is deemed to have allowed against this item for any cost associated with use of pavements, access, use of other sites for temporary use by the Contractor during the progress of the Works, etc.</p> <p>The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit shall be established by the tenderer prior to submitting the tender. The Tenderer shall ascertain any other restrictions to the area that may be occupied by the Contractor including any restrictions imposed by any buildings, etc. and any limitations or restrictions that may be imposed by any Authorities. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. Space on the pavement areas for the storage of building materials, etc., must be arranged with the Local Authorities by the Tenderer who will be responsible for all charges in connection therewith. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.</p>	Item	
17	Contract instructions (Clause 17).		
	Contract instructions issued on site shall be recorded in a Site instruction book provided by the Contractor. Only those instructions signed off by the Principal Agent will be recognized.	Item	
18	Setting out of the works (Clause 18).		
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	The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments.	Item	
19	Assignment (Clause 19).	Item	
20	Nominated subcontractors (Clause 20).		
	All subcontractors will be appointed as Selected Sub-contractors, unless otherwise agreed.	Item	
21	Selected subcontractors (Clause 21).	Item	
22	Employer's Direct contractors (Clause 22).		
	Clause 22 is amended by the addition of the following clause: 'Clause 22.6 Refer to clause C25 'Direct and Separate Contracts' for details in respect of Direct Contracts'	Item	
23	Contractor's Domestic subcontractors (Clause 23).	Item	
	<b><u>COMPLETION</u></b>		
24	Practical completion (Clause 24).	Item	
25	Works completion (Clause 25).		
	Clause 25.1 is amended by the addition of the following Clauses: 25.1.1 The Contractor shall, within five (5) working days of receipt of the works completion list, issue a programme indicating the dates for completion of the works completion list, for the approval of the Principal Agent. 25.1.2 Should the Contractor fail to issue such a programme, it shall be deemed that the Contractor agrees to complete the works completion list within forty (40) working days of the date of receipt of the works completion list. 25.1.3 Should the Contractor fail to complete the defects and achieve works completion in accordance with the agreed programme or the deemed forty (40) day period, and without prejudice to any other rights that the Employer may have, the Contractor shall be liable to the Employer for the penalty as described as the Works Completion Penalty per day until works completion is achieved. Refer to Clause 30.	Item	
26	Final completion (Clause 26).	Item	
27	Latent defects liability period (Clause 27).		
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28	<p>Clause 27.0 is amended by the addition of the following clauses: "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"</p>	Item
	Sectional completion (Clause 28).	Item
	Revision of date for practical completion (Clause 29).	
29	<p>Clause 29 is amended as follows:</p> <p>Should possession of the site not be given on or before the date stated in the Contract Data EC Schedule (2.4), then the extension to that date will also be applicable to the date for practical completion (4.0) and the contract sum will not be adjusted.</p> <p>Clause 29.1.1 is deemed to be deleted and replace by the addition of the following:</p> <p>29.1.1 Inclement weather which shall be defined as weather in excess of the average recorded for the past ten (10) years by the nearest commonly recognised weather bureau in the region of the project. The Contractor shall be deemed to have allowed in his programme of the works and opposite this item or in in his rates, for the cost of all delays as a result of weather conditions which are below average or average (as defined above) Furthermore, the Contractor shall also have been deemed to have allowed in his programme for the and opposite this item or in his rates, for the cost of the loss of twelve (12) working days lost on the critical path of the programme due to delays as a result of inclement weather as defined above.</p> <p>The above float which is included in the Contractor's programme may also be used for any other critical path delays which the Contractor may become entitled to, at the sole discretion of the Principal Agent. Each claim for delays as a result of inclement weather shall be made to the Principal Agent within seven (7) calendar days of the occurrence thereof, failing which no delays shall be recorded.</p> <p>NOTE: Revision to the date of Practical Completion shall only be considered when work on the critical path of the agreed programme for the works is delayed. Clause 29 is amended by the addition of the following clause: The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor the adjustment of contract value.</p>	
	Penalty for non-completion (Clause 30).	Item
	Clause 30.0 is amended by the addition of the following Clause:	
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31	<p>30.3 Penalties for not achieving the Date of Works Completion in terms of Clause 25.4 shall be levied at fifty percent (50%) of the penalties defined for not achieving Practical Completion. The penalty shall be in addition to any penalties due in terms of Clause 30.1; 30.2; and 30.3.</p> <p><b><u>PAYMENT</u></b></p> <p>Interim payment to the contractor (Clause 31).</p> <p>Clause 31 is amended as follows:</p> <p>The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable.</p> <p>Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.</p> <p>Clause 31.9 is amended as follows:</p> <p>line 1, 'delete reference to seven (7) calender days and insert thirty (30) calender days' Clause 31.10 is amended by the deletion of 'date of practical completion' in the second and fourth sentence and replacing with 'date of final completion.'</p> <p>'The contractor shall attach a tax invoice as prescribed in the Value Added Tax legislation to each payment certificate when presenting the certificate to the employer for payment. Such tax invoices shall correctly reflect the prescribed information and the amounts shall match precisely the amounts included in the payment certificate. Should the contractor fail to comply with these requirements, the date of presentation of the certificate shall be deemed to be delayed at the contractor's default until such time as the requirements are met.'</p>	Item
	<p>Adjustment to the contract value (Clause 32).</p> <p><b>FIXED PRICE CONTRACT</b> Clause 32.13 is deleted and replaced as follows: The tender is a fixed price and NO escalations in respect of increased costs of labour, materials, plant, fuel, freight, transportation and railage charges, taxes (save for VAT), customs or other duties, fees and charges shall be applicable. The contractor shall take the risk of all fluctuations in the rates of exchange of the rand or any other currency.</p> <p>Bidders are advised that this Contract shall be a Fixed Price Contract and shall not be subject to the Contract Price Adjustment Provisions (CPAP) or any other escalation formula and therefore bidders are to allow for any increases (except any variations in the rate of Value Added Tax) in cost of labour, materials, transport, etc.</p>	Item
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	Add Clause 32.16: The Principal Agent and/or the Quantity Surveyor shall be entitled to call for, and review, documentation to substantiate any variations from any supplier, subcontractor, etc.	Item
33	Recovery of expense and loss (Clause 33).	Item
34	Final account and final payment (Clause 34).	
	Clause 34.1 is amended as follows: 'The principal agent shall prepare a final account for submission to the contractor within ninety (90) working days.'	Item
35	Payment to other parties (Clause 35).	Item
	<b><u>CANCELLATION</u></b>	
36	Cancellation by Employer - Contractor's default (Clause 36).	
	Should it appear to the Principal Agent concerned that the contractor is not executing the contract in accordance with the true intent and meaning thereof, or that he is refusing or delaying to execute the contract or that he is not carrying on the contract at such rate of progress as to ensure delivery by the date of delivery or that the time has expired within which delivery should have taken place or in the event of any other failure or default by the contractor, then in any such events, the Principal Agent, may give notice in writing to the contractor to make good the failure or default, and should the contractor fail to comply with the notice within the period specified therein, then and in such case report the matter to the Bid Adjudication Committee who shall, without prejudice to any of the Council's rights under the contract, be at liberty forthwith to appoint the next most responsive tenderer to perform such service as the contractor may have neglected to do so, or take the contract wholly or in part out of the contractor's hands and order from or contract with any other person.	
	The contractor shall be responsible for any loss the Council may sustain by reason of such action as may be taken in terms of this clause. The termination of contracts awarded via the Bid Adjudication Committee are to be approved by the Bid Adjudication Committee. Should a contract be awarded and it subsequently be established that - Prohibition on awards to persons in the service of the state, of the SCM Regulations has been breached, the contract will be terminated with immediate effect.	Item
37	Cancellation by Employer - Loss and damage (Clause 37).	Item
38	Cancellation by Contractor - Employer's default (Clause 38).	Item
39	Cancellation - Cessation of the works (Clause 39).	Item
	<b><u>DISPUTE</u></b>	
40	Dispute Settlement (Clause 40).	Item
	<b><u>SUBSTITUTE PROVISIONS</u></b>	
41	State clauses (Clause 41).	Item
	<b><u>CONTRACT VARIABLES</u></b>	
42	The Schedule: Pre-Tender information (Clause 42).	Item
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**CONTRACTING AND OTHER PARTIES (Clause 42.1)**

**CONTRACT DETAILS (Clause 42.2)**

Clause 42.2.1 Works Description:

Proposed New Ablution Blocks at Existing School (DBSA Water & Sanitation Programme)

Clause 42.2.2 Site Description:

Nondweni Township near Cummunity Hall

Umzinyathi Municipality

KwaZulu Natal

Clause 42.2.3 Work or Installations by Others: Yes

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

Dispute resolution :- Mediation (in terms of 40.4) followed by litigation.

Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A

Clause 42.2.5 Date on which possession of the site is intended to be given on :- 5 working days from the date of the letter of appointment to the Contractor.

Clause 42.2.6 Period for the commencement of the works after the contractor takes possession of the site :- 2 Working days.

Clause 42.2.7 Intended date of practical completion and the penalty per calendar day for the works as a whole :- 8 Calendar months from the day of commencement of the works; Penalty amount R10,000.00 per calendar day

Clause 42.2.8 Intended dates of practical completion and the penalties per calendar day for the works in sections : N/A

Clause 42.2.9 The law applicable to this agreement shall be that of - South Africa.

**INSURANCES (Clause 42.3)**

Clause 42.3.1 Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 20% With a deductible of : (deductable n/a)

Clause 42.3.2 Supplementary insurance is required : Yes SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum (deductable n/a).

Clause 42.3.3 Public liability insurance to be effected by Contractor For the amount of: R10 million With a deductible of: (deductible n/a)

**DOCUMENTS (Clause 42.4)**

Clause 42.4.1 Waiver of the contractor's lien is required :- YES

Clause 42.4.2 Number of construction document copies to be supplied to the Contractor free of charge :- 3

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<p>Clause 42.4.3 Bills of Quantities drawn up in accordance with :- Standard System of Measuring Building Work - Sixth Edition including all latest amendments at date of tender</p> <p>Clause 42.4.4 Number of days for submission of priced documents : to be submitted with tender submission.</p> <p>Clause 42.4.5 JBCC Engineering General Conditions are to be included in the documents :- No</p> <p>Clause 42.4.6 The contract value is to be adjusted using CPAP:- No</p> <p>Refer to Clause 32 of these Preliminaries for details.</p> <p>Clause 42.4.7 Details of changes made to the provisions of JBCC standard documentation:</p> <p>Note: The tenderer must study the modifications and amendments made to the relevant clauses in the Preliminaries section of the Bills of Quantities, under each clause heading.</p> <p><b><u>SECTION B: PRELIMINARIES</u></b></p>		
43	<p>DEFINITIONS AND INTERPRETATION (B1)</p> <p><b><u>DOCUMENTS (B2)</u></b></p>	Item
44	<p>Checking of documents (B2.1) The items in these Bills of Quantities are to be read and priced in conjunction with, and the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 1999 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles to all Trades and Supplementary documentation will be entertained.</p> <p>Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.</p>	Item
45	<p>Provisional Bills of Quantities (B2.2)</p> <p>Clause 2.2 is deemed to be deleted and replaced by the following:</p> <p>"Except where indicated otherwise, the quantities of and classes and kinds of works set out in these Bills of Quantities are provisional and do not purport to represent the final quantities of and classes and kinds of work eventually required to be done. The quantities of and classes and kinds of work contained herein have been set down solely in order to form a basis for obtaining competitive tenders.</p> <p>The Bills of Quantities are not to be used for ordering materials under any circumstances whether this be with regard to description or specification of materials or goods required, or with regard to quantities. Failure to comply with this condition is entirely at the Contractor's own risk.</p>	
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<p>The Contractor shall be obliged upon instruction of the Principal Agent to execute such quantities of and classes and kinds of work as the Principal Agent in his sole discretion may deem necessary or which, in the Principal Agent's opinion, become expedient from time to time or which may be required to meet the Employer's requirements, whether or not such quantities of and classes or kinds of work may appear in these Bills of Quantities or the contract drawings.</p> <p>The consideration payable to the Contractor in respect of the works shall be determined by the Agent by the application of the rates contained in the priced Bill of Quantities to the quantities of and classes and kinds of work actually executed, which quantities of and classes and kinds of work shall be determined by the Agent.</p> <p>The rates contained in the priced Bills of Quantities shall apply irrespective of the final quantities of the different classes and kinds of work actually executed. No claims for extras, loss of profit, variation of rates or other similar claims will be entertained as a result of any variations whatsoever between the quantities of work set out in these Bills of Quantities and the quantities of work actually executed, nor as a result of any variation whatsoever between the contract sum and the final value of works.</p> <p>Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., or loss of profit related thereto."</p>		
46	Availability of construction documentation (B2.3)	Item
	Construction drawings are incomplete and will be progressively completed during the construction period.	Item
47	Interests of Agents (B2.4)	Item
48	Priced documents (B2.5)	Item
49	Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 90 (Ninety) calendar days from the closing date of tenders.	Item
<b><u>THE SITE (B3)</u></b>		
50	Defined works area (B3.1)	
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<p>The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. The Tenderer shall ascertain any other restrictions to the area that may be occupied by the Contractor including any restrictions imposed by any buildings, etc. And any limitations or restrictions that may be imposed by any Authorities. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. Space on the pavement areas for the storage of building materials, etc., must be arranged with the Local Authorities by the Tenderer who will be responsible for all charges in connection therewith. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.</p>		Item
51	Geotechnical investigation (B3.2)	Item
52	Inspection of the Site (B3.3) No Claim for extras arising from the contractor having failed to comply with the clause will be entertained.	Item
53	Existing premises occupied (B3.4) - YES	Item
54	<p>Previous work - dimensional accuracy (B3.5)</p> <p>The piling positions, tolerances, etc., must be surveyed, confirmed and accepted in writing by the Principal Contractor within 7 calendar days of construction commencement.</p> <p>Furthermore, the Contractor shall within 7 calendar days of commencement of construction arrange for the Piling contractor to undertake and confirm integrity tests of the piling (the cost of testing of piles has been allowed for in the separate piling contract.</p>	Item
55	Previous work - defects (B3.6)	Item
56	Services - known (B3.7)	Item
57	Services - unknown (B3.8)	Item
58	Protection of trees (B3.9)	Item
59	Articles of value (B3.10)	Item
60	<p>Inspection of adjoining properties (B3.11)</p> <p>Note: The Contractor shall undertake the inquiries and take the required actions as defined in this Clause.</p> <p>The Tenderer shall inspect access roads, etc and shall be responsible for any damage evident at the end of the contract which has not been pointed out.</p>	Item
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<b><u>MANAGEMENT OF CONTRACT (B4)</u></b>		
61	Management of the Works (B4.1) Clause 4.1 shall be deemed to be amended by the addition of the following: 'The contractor shall, to the satisfaction of the principal agent, provide the services of an experienced and competent Construction Manager and Site Agent supported by a management team who shall inter alia be responsible for all activities of the contractor and all sub-contractors and in particular:- a) Programming b) Scheduling c) Reporting d) Production of shop drawings and samples e) Procurement and expediting f) Liaison and co-ordinating of construction g) Commissioning, instruction, handover and follow up. h) Monitoring and reporting on building activities taking place off site. The names and CV's on the contractor's site management team shall be submitted to the principal agent prior to commencement on site and, after the principal agent's agreement on the composition thereof has been obtained. No changes shall be made nor shall any member of the said team be removed from site while remaining in employ of the contractor without the principal agent's express written approval.	Item
62	Programme for the Works (B4.2)	Item
63	Progress meetings (B4.3)	Item
64	Technical meetings (B4.4)	Item
65	Labour and Plant Records (B4.5)	Item
<b><u>SAMPLES AND SHOP DRAWINGS (B5)</u></b>		
66	Samples of materials (B5.1)	Item
67	Workmanship samples (B5.2)	Item
68	Shop drawings (B5.3)	
<p>The term 'shop drawings' shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance charts, brochures, operating manuals and other data which are prepared by the Contractor or any Sub-Contractor, manufacturer, supplier or distributor and which illustrate the specified portion of the work.</p> <p>The Contractor shall ensure that all shop drawings required for the Works in terms of this Contract, all Selected/Nominated Sub-Contracts and/or any Principal Agent's instruction, are prepared and submitted timeously in accordance with the following procedure:</p> <p>(a) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the Principal Agent, for approval. Such work shall not be carried out until such approval has been given.</p> <p>(b) Shop drawings shall be submitted to the Principals Agents for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme.</p>		
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<p>(c) All submissions shall be prepared in accordance with the Contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications. Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agents instruction shall not constitute grounds for any claims for delay, extension of time and the like.</p> <p>(d) When the Principal Agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the Principal Agent so that the Principal Agent's stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the Principal Agent. As many prints of the approved shop drawings and schedules as required shall also be furnished to the Works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the Principal Agent's approval.</p> <p>(e) The Contractor, Sub-Contractor or Supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.</p> <p>(f) The Principal Agent or other Agents approval of shop drawings is limited to checking conformity with specification and shall not relieve the Contractor, Sub-Contractor or Supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.</p> <p>(g) Should the Contractor, Sub-Contractor or Supplier be of the opinion that corrections to shop drawings made by the Principal Agent or other Agents, constitute a change to the scope of work, then he shall immediately advise the Principal Agent in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Principal Agents directive.</p> <p>(h) One additional copy of the final approved set of 'Shop drawings' is to be submitted to the Quantity Surveyors for purposes of valuation and final account remeasurement.</p>		
<b><u>TEMPORARY WORKS AND PLANT (B6)</u></b>		
69	Deposits and fees (B6.1)	Item
70	Enclosure of the works (B6.2)	Item
71	Advertising (B6.3)	Item
72	Plant, equipment, sheds and offices (B6.4)	Item
73	Main notice board (B6.5) One notice board shall be provided.	Item
74	Subcontractors' notice board (B6.6)	Item
<b><u>TEMPORARY SERVICES (B7)</u></b>		
75	Location (B7.1)	Item
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76	Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor)	Item
77	Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor)	Item
78	Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor)	Item
79	Ablution facilities (B7.5) The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor)	Item
<b><u>PRIME COST AMOUNTS (B8)</u></b>		
80	Responsibility for prime cost amounts (B8.1)	Item
<b><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></b>		
81	General Attendance (B9.1) Clause 9.1 shall be amended by the addition of the following:  The contractor shall:  a) Provide every assistance necessary for the due performance by all sub-contractors of their work and to enable them to execute their work in a like manner, in a proper order and sequence. The Contractor shall provide to all subcontractors all necessary scaffolding, board movements, cramage, hoisting, storage, etc. needed for the due and proper fulfillment of the Works.  b) Supervise and administer the sub-contractors and arrange and monitor programmes with each sub-contractor and supplier and co-ordinate the work of all sub-contractors and deliveries by suppliers.  c) Attendance on Nominated/Selected sub-contractors includes co-operating to the fullest extent with all parties and providing facilities for general attendance.	Item
82	Special Attendance (B9.2) Clause 9.2 is deleted and replaced with the following:  The tenderer shall examine all drawings and information pertaining to the Works as a whole and shall provide all neccassary resources for the due and proper execution and completion of the Works.  The provision, erection, moving as necessary and dismantling of scaffolding by the Contractor as required for the work, shall be done in the best interests of the project whereby the duration of erected scaffolding shall allow following trades to use such scaffolding and all trades and subcontracts shall have adequate and proper use of scaffolding for the contract duration.  The Contractor shall also provide all neccassary hoistage, cramage, storage, etc., for the due fulfillment of the Contract and all trades and sub-contracts.	Item
83	Commissioning - fuel, water and power (B9.3)	Item
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<b><u>FINANCIAL ASPECTS (B10)</u></b>			
84	Statutory taxes, duties and levies (B10.1) Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).	Item	
85	Payment of Preliminaries (B10.2)	Item	
86	Adjustment of Preliminaries (B10.3)	Item	
87	Payment certificate cash flow (B10.4)	Item	
<b><u>GENERAL (B11)</u></b>			
88	Protection of the Works (B11.1)	Item	
89	Protection/isolation of existing/sectionally occupied works (B11.2)	Item	
90	Security of the Works (B11.3)	Item	
91	Notice before covering work (B11.4)	Item	
92	Disturbance (B11.5)	Item	
93	Environmental Disturbance (B11.6)	Item	
94	Works cleaning and clearing (B11.7)	Item	
95	Vermin (B11.8)	Item	
96	Overhand work (B11.9)	Item	
97	Instruction Manuals and Guarantees (B11.10)	Item	
98	As built information (B11.11)	Item	
99	Tenant Installation (B11.12)	Item	
<b><u>SCHEDULE OF VARIABLES (B12)</u></b>			
100	Pre-tender information (B12.1) Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given, it shall mean that either no details are available or that the clause is not relevant to this specific contract.	Item	
Provisional bills of quantities (B2.2) The quantities are provisional - YES			
Availability of construction documentation (B2.3)			
Interests of agents (B2.4)			
Defined works area (B3.1) Tenderers shall establish by personal viewing of the site conditions any restrictions imposed by existing buildings, limited means of access and the like.			
Geotechnical investigation (B3.2) - n/a			
Existing premises occupied (B3.4): - YES			
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<p>Services - known (B3.7)</p> <p>Protection of trees (B3.9)</p> <p>Inspection of adjoining properties (B3.11)</p> <p>Enclosure of the works (B6.2)</p> <p>Office accommodation for meetings (B6.4.3)</p> <p>Main notice board (B6.5) One main notice board shall be provided as per the details provided herewith.</p> <p>Subcontractors' notice board (B6.6) A notice board is required (No).</p> <p>Water (B7.2) Alternative chosen: A</p> <p>Electricity (B7.3) Alternative chosen: A</p> <p>Telecommunication facilities (B7.4) Alternative chosen: A</p> <p>Ablution facilities (B7.5) Alternative chosen: A</p> <p>Special Attendance (B9.2)</p> <p>Protection of the works (B11.1)</p> <p>Protection/isolation of existing/sectionally occupied works (B11.2)</p> <p>Disturbance (B11.5)</p> <p><b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b></p> <p><b><u>Section C: Specific Preliminaries:</u></b></p>		
101	<p>C1. Proprietary branded products</p> <p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.</p>	Item
102	<p>C2. Trade Names, etc.</p> <p>All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender. The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.</p>	Item
103	<p>C3. Contractors responsibility</p> <p>The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.</p>	Item
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104	<p>C4. Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p>	Item	
105	<p>C5. As built drawings</p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p>	Item	
106	<p>C6. Construction Instructions</p> <p>Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:</p> <p>a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated Authority in the book. Only instructions issued in such book shall be recognised</p> <p>b) Daily Record Book The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p>	Item	
107	<p>C7. Labour record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p>	Item	
108	<p>C8. Plant record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>	Item	
109	C9. Encroachment		
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	During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.	Item
110	C10. Method Statement  The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.	Item
111	C11. Unauthorised Persons/Workmen on Premises  The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item
112	C12. Mode of Procedure  Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.  Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.	Item
113	C13. Shop Drawings  The term 'shop drawings' shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance charts, brochures, operating manuals and other data which are prepared by the Contractor or any Sub-Contractor, manufacturer, supplier or distributor and which illustrate the specified portion of the work.  The Contractor shall ensure that all shop drawings required for the Works in terms of this Contract, all Selected/Nominated Sub-Contracts and/or any Principal Agent's instruction, are prepared and submitted timeously in accordance with the following procedure:  (a) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the Principal Agent, for approval. Such work shall not be carried out until such approval has been given.	
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	<p>(b) Shop drawings shall be submitted to the Principal Agents for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme.</p> <p>(c) All submissions shall be prepared in accordance with the Contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications. Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agents instruction shall not constitute grounds for any claims for delay, extension of time and the like.</p> <p>(d) When the Principal Agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the Principal Agent so that the Principal Agent's stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the Principal Agent. As many prints of the approved shop drawings and schedules as required shall also be furnished to the Works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the Principal Agent's approval.</p> <p>(e) The Contractor, Sub-Contractor or Supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.</p> <p>(f) The Architects approval of shop drawings is limited to checking conformity with specification and shall not relieve the Contractor, Sub-Contractor or Supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.</p> <p>(g) Should the Contractor, Sub-Contractor or Supplier be of the opinion that corrections to shop drawings made by the Architect constitute a change to the scope of work, then he shall immediately advise the Architect in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Architects directive. (h) One additional copy of the final approved set of 'Shop drawings' is to be submitted to the Quantity Surveyors for purposes of valuation remeasurement.</p>	
114	<p>C14. Commodities to be New</p> <p>All commodities, goods, articles or materials throughout the building are to be new except where re-use of existing is specified and are to be handled, stored, used, and/or fixed with care to ensure that they are in perfect condition when incorporated into the Works and thereafter properly protected so as to ensure that they are likewise in perfect condition when handed over at completion of the Work.</p>	Item
115	<p>C15. Standard of Workmanship and Materials</p> <p>In the absence of detailed specifications for any item or items, National Building Regulations, the latest applicable South African Bureau of Standards Specification, or where such does not exist, then the latest applicable British Standard Specification shall apply.</p>	Item
116	<p>C16. Making Good</p>	
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	<p>All materials and workmanship in building up, making good, etc., are to match existing and where new materials abutt existing, they are to be neatly jointed to same.</p> <p>'Making good' existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete restoration is achieved to the satisfaction of the Principal Agent.</p> <p>'Making good' where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Architect's satisfaction.</p>	
117	<p>C17. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and Sub-Contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith. The location of all temporary works, roads, hardstands, offices, temporary stores, etc on site are deemed to be entirely at the Contractor's risk. Should there be the requirement to relocate any of the above mentioned items from established locations, the cost shall be borne entirely by the Contractor.</p> <p>The Tenderer shall ascertain all requirements for the Works as a whole, in respect of access and egress to the site, including forming a temporary location for site establishment, etc. Any requirements, including creating and forming entry gates, hardstands, etc.; shall be provided, including neccassary hoardings, etc.; and all temporary works shall be removed and made good on completion.</p>	Item
118	<p>C18. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary Works, roads, services and the like used for this Contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p>	Item
119	<p>C19. Overloading</p> <p>The Tenderer shall prior to submitting his tender determine from the Engineers any constraints and limitations in respect of Works to be executed, which have load limitations.</p>	Item
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120	<p>The Contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the Works. The Contractor shall submit details of his proposed loading, storage, plant erection, etc., to the Principal Agents for their approval prior to proceeding with such loading, storing, erecting or executing work and shall comply with and pay for the Engineers requirements in connection with the provision of temporary support work, etc.</p> <p>Any damage caused by the Works by overloading shall be made good by the Contractor at his sole expense. Notwithstanding any approval given by the Principal Agent or Engineer, the Contractor shall be entirely responsible for damage caused to the Works by overloading which damage shall be made good by the Contractor at his sole expense.</p>	
	C20. Tender Sum to be Fully Inclusive	
	<p>The Tender Sum is deemed to be the fully inclusive price for the finished work described and is deemed to include inter alia for:</p> <ul style="list-style-type: none"> <li>- The supply of all materials</li> <li>- Labour of every description including additional costs incurred in working overtime, weekends, public holidays, etc., to meet the stipulated programme dates.</li> <li>- All making, transport, conveying, cartage, carriage and delivery, etc.</li> <li>- Taking delivery, unloading, storing, unpacking, hoisting or lowering, settings, fixing and building into positions, cutting and waste, templates, patterns and models.</li> <li>- Provision and maintenance of all plant, equipment, machines, trucks and other vehicles, tackle, tools, staging, sheds, stores and temporary works necessary for the due and proper performance of the Contract Works, establishment charges and all fuel, operating costs and depreciation pertaining to plant, equipment, etc. - All applicable import taxes and duties.</li> <li>- Overheads and profit</li> <li>- All obligations arising out of the Bills of Quantities, and all costs and charges deemed necessary for complying with the terms and conditions herein. All charges required by the Contractor in connection with Preliminary and General, site establishment and the like.</li> </ul>	
121	C21. Cost of Claims	
	<p>All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Principal Agent and/or Quantity Surveyor shall be borne by the Contractor.</p>	
122	C22. Media Releases	
	<p>All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project shall vest in the Employer. The Contractor, together with his Sub-Contractor shall not, without the written consent of the Principal Agent, cause any statement or advertisement to be printed, screened or aired by the media.</p>	
123	C23. Guarantees and Maintenance Manuals	
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	<p>Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the Principal Agent on certified completion of contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility shall rest entirely with the contractor.</p> <p>The Contractor shall ensure that all warranties and guarantees received are fully ceded to the Employer on Final Completion, failing which the release of the Construction Guarantee will be withheld until this is satisfactorily completed.</p> <p>The Contractor shall comply with the provisions of the Occupational Health and Safety Act, Act 85 of 1993 and any amendments thereto, and shall comply with the arrangements relating thereto. In addition, the Contractor shall observe the recommendations of the National Occupations Safety Association and the BIFSA recommended loss control procedures.</p> <p>The Contractor shall comply with and sign the Occupational Health and Safety Site Specific Specification documentation as appended in this Bills of Quantities (Annexure E). The Contractor shall also comply with the Environmental Management Plan and also make sure that all regulations and bye-laws are complied with.</p>	
	Item	
124	C24. Occupational Health and Safety Act	
125	C25. Direct and Separate Contracts	
	<p>The Employer shall have the right to employ other Contractors (hereinafter referred to as 'Direct Contractors') to execute any special or other works whether contained in this Agreement or not, concurrently with the work being executed under this Agreement. In addition the Employer shall have the right to send his own employees or Direct Contractors on to the Works for the purpose of installing end-user/tenant installations and requirements and any other special installations and systems.</p> <p>The Contractor is to allow against the relevant items as described in this Clause for any costs and no additional claims will be entertained due to the presence on the Works of such Direct Contractors, Employer's employees or end-users/ tenants.</p> <p>Should the Contractor be required to make good after such Direct Contractors, Employer's employees or end-users/Tenants or to carry out jobbing, etc., the Contractor will be recompensated for any costs incurred by him in terms of Clause 32 of the Agreement.</p>	
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	<p>The Contractor shall not be entitled to any percentage, profit or discount on the value of any work executed by 'Direct Contractors' but shall nevertheless allow these Direct Contractors and the Employer's employees to have access to the Works, allocate reasonable space in the building for the storage of their materials, tools and equipment and co-ordinate via the Principal Agent the work of such Direct Contractors as necessary, all to the satisfaction of the Principal Agent. The Contractor shall allow the Direct Contractors, etc., to use, free of charge, the latrine accommodation and water and power supply on the site and shall not in any way hinder or prevent the execution of their work.</p> <p>The Contractor is advised that the following works inter alia, but not limited to, will be carried out by the Employer and/or his Direct Contractors and/or the Employer's employees and/or Tenants:</p> <p>Employers Furniture and Fittings</p> <p>Computer Installations Specialist Lighting other than that provided by the Electrical Sub-contractor</p> <p>Installations carried out by the Employer in the Normal course of his business</p> <p>Building Management Systems / Security Control Systems</p> <p>Raised Access Flooring</p>		
126	<p>C26. Preferential Procurement</p> <p>The Contractor shall comply with the provisions of the Preferential Procurement Regulations 2017 attached at the back of these Bills of Quantities.</p>	Item	
127	<p>C27. Contract Price Adjustment Provisions</p> <p>Bidders are advised that this Contract shall be a Fixed Price Contract and shall not be subject to the Contract Price Adjustment Provisions (CPAP) or any other escalation formula and therefore the bidders are to allow for any increases (except any variations in the rate of Value Added Tax) in cost of labour, materials, transport, etc.</p>	Item	
128	<p>C28. Co-operation of Contractor for Cost Management</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors.</p>	Item	
129	C29. Confidentiality		
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130	<p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works. No information regarding this project shall be published or disclosed without prior written consent of the employer.</p>	Item
	<p>C30. Testing of Windows for Watertightness</p> <p>Each window shall be tested for watertightness with water sprayed on by means of a 20mm hosepipe using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, the the pressure in the hosepipe shall be boosted by means of compressed air or other approved means.</p>	Item
	<p>C31. Notes to tenderers</p> <p>Items which the Tenderer wishes to price in order to provide for the due observance of the requirements of the "Notes to Tenderers" outlines at the beginning of this Bill may be priced under this item.</p>	Item
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## **SECTION NO. 2**

### **ALTERATIONS - SINGLE CLASS BLOCK A**



	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>General:</u></b></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent.</p> <p>Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc.</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing.</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork.</p>				
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	Unit	Quantity	Rate	Amount
<p>Where existing openings are given in number as built up, the existing surfaces all round shall be prepared as necessary, brickwork or blockwork properly toothed and bonded to existing or tied to concrete with 30 x 1,6mm galvanised hoop iron ties to every third course, wedged up to underside of existing lintels and finishes shall be made good on both sides as described.</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary.</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc).</p> <p>The temporary barriers, screens and supports measured hereafter are those that are specified and indicated on drawings only. The contractor shall provide all other barriers, screens and supports he deems necessary and shall allow for the cost thereof under the relevant items in the Preliminaries Bill.</p> <p><b><u>REMOVAL OF EXISTING WORK</u></b></p> <p><b><u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement:</u></b></p>				
1	Surface beds not exceeding 150mm thick.	m <sup>2</sup>	49	
<p><b><u>Taking out and removing doors, frames, etc including preparing openings to receive new doors and frames (new doors and frames elsewhere):</u></b></p>				
2	Timber single door and frame 813 x 2032mm high from 220mm brick wall.	No	1	
<p><b><u>Taking out and removing doors, frames, etc from openings to be built up (building up openings measured elsewhere):</u></b></p>				
3	Timber single door and frame 813 x 2032mm high from 220mm brick wall.	No	1	
<p><b><u>Taking out and removing steel windows, frames, glazing, etc including preparing and making good openings to receive new windows and glazing (new windows &amp; glazing elsewhere):</u></b></p>				
4	Steel window size 889 x 1250mm high from 220mm brick wall	No	4	
5	Steel window size 889 x 854mm high from 220mm brick wall	No	3	
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Bill No. 1  
Alterations

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b> <b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b> <b><u>BILL NO. 2</u></b> <b><u>EARTHWORKS</u></b>  <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Filling:</u></b> <p>Notwithstanding the reference to prescribed multiple handling in clause 1, Earthworks, of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material</p> <b><u>Testing:</u></b> <p>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D except for additional specialist testing as instructed by the Engineer.</p> <b><u>Carting away of excavated material:</u></b> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p> <b><u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u></b> <b><u>Excavation in earth not exceeding 2m deep:</u></b>				
1	Reduced levels under floors	m <sup>3</sup>	7	
<b><u>Extra over all excavations for carting away:</u></b>				
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m <sup>3</sup>	7	
<b><u>FILLING, ETC.</u></b> <b><u>Compaction of surfaces:</u></b>				
3	Compaction of ground surfaces 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 <sup>2</sup>	49	
Carried to Collection			R	
Section No. 2 Bill No. 2 Earthworks				

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Amount

**SECTION NO. 2**  
**ALTERATIONS - SINGLE CLASS BLOCK A**  
**BILL NO. 2**  
**EARTHWORKS**  
**COLLECTION**

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R

Section No. 2  
Bill No. 2  
Earthworks



2-10

	Unit	Quantity	Rate	Amount
<b><u>TEST BLOCKS.</u></b>				
<b><u>Test blocks:</u></b>				
2 Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	1		
<b><u>FINISHING TOP SURFACE OF CONCRETE</u></b>				
<b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b>				
3 Surface beds, slabs, etc.	m <sup>2</sup>	49		
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>				
<b><u>Rough formwork to sides</u></b>				
4 Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	1		
<b><u>MOVEMENT JOINTS, ETC.</u></b>				
<b><u>Isolation joints with closed off polyethylene joint filler between vertical concrete and brick surfaces (Jointex or similar approved):</u></b>				
5 Not exceeding 300mm high to edges of surface beds.	m	27		
<b><u>Saw-cut joints:</u></b>				
6 3 x 40mm Saw-cut joints in top of concrete.	m	14		
<b><u>REINFORCEMENT</u></b>				
<b><u>Fabric reinforcement:</u></b>				
7 Type 193 fabric reinforcement in concrete surface beds, etc.	m <sup>2</sup>	49		
Carried to Collection			R	
Section No. 2				
Bill No. 3				
Concrete, Formwork And Reinforcement				

Amount

**SECTION NO. 2**  
**ALTERATIONS - SINGLE CLASS BLOCK A**  
**BILL NO. 3**  
**CONCRETE, FORMWORK AND REINFORCEMENT**  
**COLLECTION**

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Carried To Section Summary

Section No. 2  
Bill No. 3  
Concrete, Formwork And Reinforcement

R

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b> <b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b> <b><u>BILL NO. 4</u></b> <b><u>WATERPROOFING</u></b>  The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder. <b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b> <b><u>One layer of 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u></b>				
1	Under surface beds.	m <sup>2</sup>	49	
<b><u>JOINT SEALANTS, ETC.</u></b> <b><u>Two-part polyurethane sealing compound including backing cord, bond breaker, primer, etc.:</u></b>				
2	15 x 10mm In isolation joints including raking out isolation joint filler.	m	27	
3	3 x 40mm In saw-cut joints in floors.	m	14	
Carried To Section Summary				
Section No. 2				
Bill No. 4				
Waterproofing				
2-13				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>				
<b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b>				
<b><u>BILL NO. 5</u></b>				
<b><u>ROOF COVERINGS</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>ROOF INSULATION</u></b>				
<b><u>'Sisalation 420' or similar approved heavy industrial grade aluminium foil based insulation:</u></b>				
1	Insulation laid taut over battens (at approximately 380mm centres) and fixed concurrent with roof covering including galvanised steel straining wires, laps, etc.	m²	49	
Carried To Section Summary				R
Section No. 2				
Bill No. 5				
Roof Coverings				

2-15

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b> <b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b> <b><u>BILL NO. 7</u></b> <b><u>CEILINGS PARTITIONS AND ACCESS FLOORING</u></b>  The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.  <b><u>NAILED UP AND SCREW UP CEILINGS</u></b> <b><u>6,4mm Gypsum plasterboards with H-profile galvanised steel jointing strips:</u></b>				
1				
Ceilings including 38 x 38mm sawn softwood brandering at 450mm centres with cross brandering at 450mm centres and at joints, ends of sheets and at light fittings, etc.				
	m <sup>2</sup>	49		
2				
Extra over ceiling for 600 x 600mm hinged trap door of wrought softwood rebated framing with one sawn softwood cross brander covered with ceiling board and fitted flush in opening, including necessary trimmers all around.				
	No	1		
Carried To Section Summary				
Section No. 2				
Bill No. 7				
Ceilings Partitions And Access Flooring				
2-16				

**SECTION NO. 2**  
**ALTERATIONS - SINGLE CLASS BLOCK A**  
**BILL NO. 8**  
**FLOOR COVERINGS**

The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.

**VINYL FLOOR COVERINGS, WALL LININGS, ETC.**  
**300 x 300 x 2,5mm Thick semi flexible vinyl floor tiles laid in two colour pattern fixed with an approved adhesive:**

1 On screeded floors.

Unit	Quantity	Rate	Amount
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m²	49		
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Carried To Section Summary

R

Section No. 2  
Bill No. 8  
Floor Coverings



	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b> <b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b> <b><u>BILL NO. 9</u></b> <b><u>IRONMONGERY</u></b> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>IRONMONGERY FIXED TO DOORS, ETC.</u></b> <b><u>LOCKS:</u></b>				
1	No	1		
<b><u>NUMERAL AND NAMEPLATES, ETC.</u></b> <b><u>Clear perspex name plate reverse engraved and enamelled in white lettering 25mm high to suit, twice countersunk holed for and tapscrewed to steel door frames or gate framing with chromium plated dome-headed selftapping screws:</u></b>				
2	No	1		
<b><u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws:</u></b>				
3	No	1		
<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u></b> <b><u>Softboard pinning boards with pen tray and fixing component all fixed according to manufacturer's instruction.</u></b>				
4	No	1		
<b><u>Chalkboard type System 1000 standard vitreous enamel magnetic chalkboard:</u></b>				
5	No	1		
Carried To Section Summary				R
Section No. 2				
Bill No. 9				
Ironmongery				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b> <b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b> <b><u>BILL NO. 10</u></b> <b><u>METALWORK</u></b>  The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.  <b><u>STEEL WINDOWS, DOORS, ETC.</u></b> <b><u>Standard residential windows with steel burglar bars to fixed lights and opening sashes:</u></b>				
1 Window of size 889 x 854mm high with one opening light complete with approved standard brass fittings and including 2 no. 8mm galvanised steel burglar bars.	No	3		
2 Window of size 889 x 1248mm high with one opening light complete with approved standard brass fittings and including 2 no. 8mm galvanised steel burglar bars	No	4		
<b><u>1,2mm Galvanised mild steel double rebated frames suitable for one brick walls including 1.5 pair brass butt hinge per leaf.</u></b>				
3 Frame for door 813 x 2032mm high.	No	1		
Carried To Section Summary			R	
Section No. 2 Bill No. 10 Metalwork				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>				
<b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b>				
<b><u>BILL NO. 11</u></b>				
<b><u>PLASTERING</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>INTERNAL PLASTER</u></b>				
<b><u>One coat cement plaster steel trowelled on brickwork or concrete:</u></b>				
1	Internal walls.	m <sup>2</sup>	67	
2	External walls.	m <sup>2</sup>	35	
<b><u>CEMENT SCREEDS</u></b>				
<b><u>Cement screed on concrete:</u></b>				
3	30mm Thick screeds steel trowelled on concrete floors.	m <sup>2</sup>	49	
Carried To Section Summary			R	
Section No. 2				
Bill No. 11				
Plastering				

**SECTION NO. 2**  
**ALTERATIONS - SINGLE CLASS BLOCK A**  
**BILL NO. 12**  
**PLUMBING AND DRAINAGE**

The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.

**FIRE APPLIANCES, ETC.**

**Fire hose reels, etc.:**

- 1
- 4,5kg Dry chemical powder fire extinguisher fixed to wall with meranti backboard, size 520 x 100 x 22mm thick, plugged and screwed to wall complete with hook.

Unit	Quantity	Rate	Amount
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No	1		
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Carried To Section Summary

R

Section No. 2  
Bill No. 12  
Plumbing And Drainage

		Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>					
<b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b>					
<b><u>BILL NO. 13</u></b>					
<b><u>GLAZING</u></b>					
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.					
<b><u>GLAZING TO STEEL WITH PUTTY</u></b>					
<b><u>4mm Clear float glass:</u></b>					
1	Panes exceeding 0,1m² and not exceeding 0,5m².	m²	7		
Carried To Section Summary				R	
Section No. 2					
Bill No. 13					
Glazing					

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>				
<b><u>ALTERATIONS - SINGLE CLASS BLOCK A</u></b>				
<b><u>BILL NO. 14</u></b>				
<b><u>PAINTWORK</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>ON FLOATED PLASTER SURFACES</u></b>				
<b><u>Prepare surfaces and remove all loose material, apply one coat "Dulux" Trade alkaline resistant primer, one undercoat "Dulux" Trade Universal and two coats "Dulux" Pearglo water-based paint, or similar approved on:</u></b>				
1 Interior walls.	m <sup>2</sup>	67		
2 Exterior walls.	m <sup>2</sup>	35		
<b><u>ON WOOD</u></b>				
<b><u>Strip, sand down, prepare and apply one coat approved wood primer undercoat and two coats approved gloss enamel</u></b>				
3 Exterior doors.	m <sup>2</sup>	3		
4 Skirtings and quadrant bead, rails, etc., not exceeding 300 mm girth.	m	27		
<b><u>PLASTERBOARD</u></b>				
<b><u>Prepare, prime nail heads and strips with zinc chromate primer, one universal undercoat and two finishing coats of semi-gloss PVA on:</u></b>				
5 General surfaces of ceilings.	m <sup>2</sup>	49		
6 Cornice.	m	28		
<b><u>VINYL TILES</u></b>				
<b><u>Prepare and apply two coats dressing on:</u></b>				
7 General surfaces of vinyl tile flooring.	m <sup>2</sup>	49		
Carried To Section Summary			R	
Section No. 2				
Bill No. 14				
Paintwork				

Amount

**SECTION NO. 2**  
**ALTERATIONS - SINGLE CLASS BLOCK A**  
**SECTION SUMMARY**

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4	WATERPROOFING	2-13
5	ROOF COVERINGS	2-14
6	CARPENTRY AND JOINERY	2-15
7	CEILINGS PARTITIONS AND ACCESS FLOORING	2-16
8	FLOOR COVERINGS	2-17
9	IRONMONGERY	2-18
10	METALWORK	2-19
11	PLASTERING	2-20
12	PLUMBING AND DRAINAGE	2-21
13	GLAZING	2-22
14	PAINTWORK	2-23

Section No. 2  
SECTION SUMMARY

Carried to Final Summary

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**SECTION NO. 3**

**SUB-STRUCTURE GRADE R 5-SEATER ABLUTION  
BLOCK I**



3-2

	Unit	Quantity	Rate	Amount
<b><u>Extra over trench and hole excavations in earth for excavation:</u></b>				
5	Soft rock.	m <sup>3</sup>	6	
6	Hard rock.	m <sup>3</sup>	3	
<b><u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod AASHTO density</u></b>				
7	Exceeding 1m and not exceeding 1.5m deep for placing and removing formwork to walls etc., against excavated face	m <sup>2</sup>	17	
8	Exceeding 1.5m and not exceeding 3.0m deep for placing and removing formwork to walls etc., against excavated face.	m <sup>2</sup>	43	
<b><u>Extra over all excavations for carting away:</u></b>				
9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m <sup>3</sup>	47	
<b><u>Risk of collapse of excavations:</u></b>				
10	Sides of trench and hole excavations not exceeding 1,5m deep.	m <sup>2</sup>	17	
11	Sides of trench and hole excavations exceeding 1,5m deep.	m <sup>2</sup>	43	
<b><u>Keeping excavations free of water:</u></b>				
12	Keeping excavations free of all water other than subterranean water.	Item		
<b><u>FILLING, ETC.</u></b>				
<b><u>Compaction of surfaces:</u></b>				
13	Compaction of ground surfaces 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 <sup>2</sup>	34	
<b><u>Earth filling from excavations or prescribed stock piles on site compacted in 150mm layers to 95% Mod AASHTO at -1 to +2 of its optimum moisture content:</u></b>				
14	Backfilling to trenches, holes, etc.	m <sup>3</sup>	17	
Carried to Collection			R	
Section No. 3				
Bill No. 1				
Earthworks				

[illegible]

Amount

**SECTION NO. 3**  
**SUB-STRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I**  
**BILL NO. 1**  
**EARTHWORKS**  
**COLLECTION**

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Section No. 3  
Bill No. 1  
Earthworks

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>SUB-STRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Cost of tests:</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Principal Agent. (Test cubes are measured separately).</p> <p><b><u>Formwork:</u></b></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Unless otherwise described, formwork to all concrete is deemed to include for propping exceeding 1,5m and not exceeding 3,5m high above bearing level.</p> <p>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.</p>				
Carried to Collection			R	
<p>Section No. 3</p> <p>Bill No. 2</p> <p>Concrete, Formwork And Reinforcement</p>				

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Amount

**SECTION NO. 3**  
**SUB-STRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I**  
**BILL NO. 2**  
**CONCRETE, FORMWORK AND REINFORCEMENT**  
**COLLECTION**

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Section No. 3  
Bill No. 2  
Concrete, Formwork And Reinforcement



	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b> <b><u>SUB-STRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I</u></b> <b><u>BILL NO. 3</u></b> <b><u>MASONRY</u></b>  The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder. <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>BRICKWORK</u></b> <b><u>Sizes in description</u></b> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <b><u>Facebricks</u></b> Bricks shall be ordered timeously to obtain uniformity in size and colour <b><u>Pointing</u></b> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc. <b><u>Wall ties, etc.</u></b> The minimum thickness of the galvanising to wall ties to be 750g/m <sup>2</sup> <b><u>BRICKWORK IN FOUNDATIONS</u></b> <b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>				
1	m <sup>2</sup>	6		
<b><u>Load bearing brickwork cross bonded and laid in class 1 mortar and fully grouted:</u></b>				
2	m <sup>2</sup>	39		
<b><u>BRICKWORK SUNDRIES</u></b> <b><u>Lining pitwalls with corprox or similar cementitious water proofing:</u></b>				
3	m <sup>2</sup>	43		
4	m	25		
Carried to Collection			R	
Section No. 3 Bill No. 3 Masonry				
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Amount

SECTION NO. 3  
SUB-STRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I  
BILL NO. 3  
MASONRY  
COLLECTION

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Section No. 3  
Bill No. 3  
Masonry

Amount

**SECTION NO. 3**  
**SUB-STRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I**  
**SECTION SUMMARY**

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3	MASONRY	3-12

Section No. 3  
SECTION SUMMARY

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**SECTION NO. 4**  
**SUPERSTRUCTURE GRADE R 5-SEATER**  
**ABLUTION BLOCK I**

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b> <b><u>ABLUTION BLOCK I</u></b> <b><u>BILL NO. 1</u></b> <b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Cost of tests</u></b> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately) '</p> <b><u>Formwork</u></b> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as 'left in' or 'permanent'), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. '</p> <b><u>REINFORCED CONCRETE</u></b> <b><u>25MPa/19mm Concrete</u></b>				
1	m <sup>3</sup>	2		
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b> <b><u>Rough formwork to soffits of:</u></b>				
2	m <sup>2</sup>	16		
<b><u>REINFORCEMENT (PROVISIONAL)</u></b> <b><u>Fabric reinforcement:</u></b>				
3	m <sup>2</sup>	16		
Carried To Section Summary			R	
Section No. 4				
Bill No. 1				
Concrete, Formwork And Reinforcement				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b> <b><u>ABLUTION BLOCK I</u></b> <b><u>BILL NO. 2</u></b> <b><u>MASONRY</u></b> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Sizes in description</u></b> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <b><u>Hollow walls</u></b> <p>Descriptions of hollow walls shall be deemed to include leaving perpend, at maximum 1m centres, of the bottom course of the external skin open as a weep hole</p> <b><u>Facebricks</u></b> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <b><u>Pointing</u></b> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <b><u>Wall ties, etc.</u></b> <p>The minimum thickness of the galvanising to wall ties to be 750g/m<sup>2</sup></p> <b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>				
1	Half brick walls.	m <sup>2</sup>	14	
2	Ditto, but in beamfilling.	m <sup>2</sup>	4	
3	One brick walls of two half brick skins with inner skin bagged and sealed	m <sup>2</sup>	55	
<b><u>BRICKWORK SUNDRIES</u></b> <b><u>Brickwork reinforcement:</u></b>				
4	75mm Wide reinforcement built in horizontally.	m	53	
5	150mm Wide reinforcement built in horizontally.	m	217	
Carried to Collection			R	
Section No. 4 Bill No. 2 Masonry				

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Amount

**SECTION NO. 4**  
**SUPERSTRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I**  
**BILL NO. 2**  
**MASONRY**  
**COLLECTION**

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Section No. 4  
Bill No. 2  
Masonry

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b> <b><u>ABLUTION BLOCK I</u></b> <b><u>BILL NO. 3</u></b> <b><u>WATERPROOFING</u></b> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b> <b><u>One layer of 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u></b>				
1	In walls, under cills, etc.	m <sup>2</sup>	9	
<b><u>One layer of 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u></b>				
2	Under surface beds.	m <sup>2</sup>	8	
<b><u>JOINT SEALANTS, ETC.</u></b> <b><u>Two-part polyurethane sealing compound including backing cord, bond breaker, primer, etc.</u></b>				
3	15 x 10mm In isolation joints including raking out isolation joint filler.	m	45	
4	3 x 40mm Saw-cuts	m	1	
Carried To Section Summary			R	
Section No. 4 Bill No. 3 Waterproofing				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b> <b><u>ABLUTION BLOCK I</u></b> <b><u>BILL NO. 4</u></b> <b><u>ROOF COVERINGS</u></b> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>CORRUGATED METAL SHEETING AND ACCESSORIES</u></b> <b><u>0,5mm IBR SAFINTRA WIDEDEK or similar approved finished steel sheeting and accessories fixed to timber purlins (elsewhere):</u></b>				
1	m <sup>2</sup>	35		
<b><u>0,5mm SAFINTRA or similar approved flashings:</u></b>				
2	m	6		
<b><u>EAVES, VERGES, ETC.</u></b> <b><u>"Marley Pipe Systems" uPVC fascia boards or similar approved with aluminium H-profile fascia joiners fixed with hot-dip galvanised screws and washers.</u></b>				
3	m	13		
<b><u>"Marley Pipe Systems" uPVC socketless barge boards or similar approved with uPVC H-profile bargeboard joiners fixed with hot-dipped galvanised screws and washers fixed to 76 x 50mm trimmer batten fixed to underside of purlin ends for barge board fixing.</u></b>				
4	m	8		
<b><u>RAINWATER DISPOSAL</u></b> <b><u>"Marley Pipe Systems"</u></b> <b><u>Marley uPVC gutters or similar approved in maximum possible lengths and fixed with concealed brackets laid to falls 1:200 towards outlet, joints at corners etc, if any are to be accurately formed, sealed and rivetted to achieve a watertight finish and brackets to be fixed at maximum 1m centres.</u></b>				
5	m	13		
Carried to Collection			R	
Section No. 4 Bill No. 4 Roof Coverings				

		Unit	Quantity	Rate	Amount
6	Extra over gutter for stopped end.	No	4		
7	Extra over 110mm diameter eaves gutter for outlet for 75mm diameter pipe.	No	2		
8	75mm Diameter rainwater pipes from gutter to tank.	m	6		
9	Extra over rainwater pipe for bend.	No	4		
10	Extra over rainwater pipe for eaves offset 500mm projection.	No	2		
<b><u>ROOF INSULATION</u></b>					
<b><u>'Sisalation 420' or similar approved heavy industrial grade aluminium foil based insulation.:</u></b>					
11	Insulation laid taut over battens (at approximately 380mm centres) and fixed concurrent with roof covering including galvanised steel straining wires, laps, etc.	m <sup>2</sup>	35		
Carried to Collection				R	
Section No. 4					
Bill No. 4					
Roof Coverings					

Amount

**SECTION NO. 4**  
**SUPERSTRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I**  
**BILL NO. 4**  
**ROOF COVERINGS**  
**COLLECTION**

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Section No. 4  
Bill No. 4  
Roof Coverings

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 4</b>				
<b>SUPERSTRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I</b>				
<b>BILL NO. 5</b>				
<b>CARPENTRY AND JOINERY</b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b>SUPPLEMENTARY PREAMBLES</b>				
Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent.				
All trusses shall be designed by a registered Professional Engineer in accordance with SABS Code of Practice for Design of Timber Structures.				
The complete structure shall be inspected by the truss designer to ensure that the manufacture and erection details have been complied with.				
<b>PREFABRICATED ROOF TRUSSES, ETC.</b>				
<b>Sawn softwood:</b>				
1	m	13		
114 x 38mm Wall plates.				
<b>Design, supply and installation of prefabricated timber roof construction complete including purlins, runners, bracing hips, valleys, cleats, purlins, etc., supplied and fixed complete:</b>				
2	No	1		
Trusses for rectangular shaped building, size overall 6.31 x 3.82m on plan (VIP Grade R).				
<b>DOORS ETC.</b>				
<b>Hardwood doors hung to steel frames:</b>				
3	No	2		
2032 x 813 x 40mm TDM hardwood BB doors or similar approved with SA Pine sub frame with double top and bottom rails, tongue and groove boarding in 'v' joint rail, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces				
<b>Interior door hung to wooden frames:</b>				
4	No	4		
1800 x 813 x 32mm TDM Medium duty hollowcore hardboard faced interior stable door or similar approved				
			R	
Carried to Collection				
Section No. 4				
Bill No. 5				
Carpentry And Joinery				

	Unit	Quantity	Rate	Amount
<b><u>FRAMED FRAMES ETC</u></b>				
<b><u>Wrought meranti</u></b>				
5 50 x 60mm Rebated door frame to suite overall door size of 1800 x 813mm.	No	4		
Carried to Collection			R	
Section No. 4 Bill No. 5 Carpentry And Joinery				

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**SECTION NO. 4**  
**SUPERSTRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I**  
**BILL NO. 5**  
**CARPENTRY AND JOINERY**  
**COLLECTION**

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Section No. 4  
Bill No. 5  
Carpentry And Joinery



		Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>					
<b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b>					
<b><u>ABLUTION BLOCK I</u></b>					
<b><u>BILL NO. 6</u></b>					
<b><u>IRONMONGERY</u></b>					
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.					
<b><u>IRONMONGERY FIXED TO DOORS, ETC.</u></b>					
<b><u>Bolts and latches:</u></b>					
1	50 x 25mm Polished barrel bolt or similar approved	No	4		
<b><u>LOCKS:</u></b>					
2	75mm Two lever security lockset with satin chrome furniture.	No	2		
3	Union MG47 47mm padlock or similar approved	No	1		
<b><u>Bathroom signage "7 Year" Green vinyl on white 0.6mm thick Cromadeck sheeting with 4 x 4mm diameter holes provided for by manufacturer and install to exterior walls according to elevation with 50mm long brass screws with washers and standard 10mm wall plugs into brick walls.</u></b>					
4	180 x 180mm High aluminium toilet sign with MALE/FEMALE and/or DISABLED figure screwed to walls.	No	1		
<b><u>SUNDRIES</u></b>					
5	19mm Stainless steel chromium plated towel rail, 600mm long, with end brackets plugged to plastered or tiled wall.	No	2		
<b><u>BATHROOM FITTINGS</u></b>					
<b><u>Toilet roll holders</u></b>					
6	Lockable Stainless steel toilet roll holder plugged to wall.	No	5		
Carried To Section Summary				R	
Section No. 4					
Bill No. 6					
Ironmongery					

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 4</b> <b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b> <b><u>ABLUTION BLOCK I</u></b> <b>BILL NO. 7</b> <b><u>METALWORK</u></b>  The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.  <b><u>STEEL WINDOWS, DOORS, ETC.</u></b> <b><u>Standard galvanised mild steel residential windows with steel burglar bars to fixed lights and opening sashes</u></b>				
1 Window type 14BH, 889 x 457mm high with one opening light complete with approved standard brass fittings and including 2 no. 8mm diamter galvanised steel burglar bars	No	3		
<b><u>PRESSED STEEL DOOR FRAMES</u></b> All steel door frames to be caulked solid in class II mortar, between brickwork and frame.  <b><u>1,2mm Galvanised mild steel double rebated frames suitable for one brick walls including 1.5 pairs brass butt hinges per leaf:</u></b>				
2 Frame for door 813 x 2032mm high.	No	2		
<b><u>SECURITY GATES</u></b> <b><u>Galvanised mild steel security gates and frames:</u></b>				
3 Size of 925mm x 2250mm high, as per door schedule. (G1)	No	1		
Carried To Section Summary			R	
Section No. 4 Bill No. 7 Metalwork				

		Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>					
<b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b>					
<b><u>ABLUTION BLOCK I</u></b>					
<b><u>BILL NO. 8</u></b>					
<b><u>PLASTERING</u></b>					
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.					
<b><u>INTERNAL PLASTER</u></b>					
<b><u>One coat cement plaster steel trowelled on brickwork or concrete</u></b>					
1	On walls.	m²	181		
2	On narrow widths.	m²	2		
Carried To Section Summary				R	
Section No. 4					
Bill No. 8					
Plastering					

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>				
<b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b>				
<b><u>ABLUTION BLOCK I</u></b>				
<b><u>BILL NO. 9</u></b>				
<b><u>TILING</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>WALL TILING</u></b>				
<b><u>152 x 152 x 5mm Thick white glazed tiles fixed to plaster (elsewhere measured) with approved tile adhesive and pointed with white cement to:</u></b>				
1	Walls in splashbacks.	m²	1	
Carried To Section Summary			R	
Section No. 4				
Bill No. 9				
Tiling				

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b></p> <p><b><u>ABLUTION BLOCK I</u></b></p> <p><b><u>BILL NO. 10</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Sealing of edges</u></b></p> <p>Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone</p> <p><b><u>Polycop/Polywater polypropylene pipes</u></b></p> <p>Polycop pipes 54mm diameter and smaller shall be seamless Class 16 pipes jointed with Fast-fuse heat welded thermoplastic or where so described Polylock compression fittings. Pipes shall be firmly fixed to walls, etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><b><u>Fixing of pipes</u></b></p> <p>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</p> <p>Holes, chases, etc., are deemed to be included in the descriptions of the pipework.</p> <p><b><u>Disinfection of water pipework</u></b></p> <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L</p> <p><b><u>General</u></b></p> <p>Rates for all taps, valves, traps, water heaters, meters, etc shall be deemed to include for necessary male or female couplings and connections to pipework.</p> <p>Labour bends are deemed to be included in the rates for piping and are therefore not measured separately.</p> <p>Bends, junctions etc are measured as a single fitting. Should the contractor elect to use more than one fitting (eg 2 x 45 degree bend to create one bend or slow bend, or a reducer and a tee to create a reducing tee) the final measure will count it as a single fitting.</p>				
Carried to Collection			R	
<p>Section No. 4</p> <p>Bill No. 10</p> <p>Plumbing And Drainage</p>				

		Unit	Quantity	Rate	Amount
<b><u>SANITARY PLUMBING</u></b>					
<b><u>uPVC pipes:</u></b>					
1	110mm Pipes fixed to walls, etc.	m	22		
2	50mm Pipes fixed to walls, etc.	m	18		
<b><u>Extra over uPVC pipes for:</u></b>					
3	50mm Bend.	No	15		
4	110mm Bend.	No	5		
5	110mm Two-way vent valve.	No	5		
<b><u>Precast covers etc.</u></b>					
6	890 x 300 x 100mm Deep precast concrete cover slab (Type A) with 2 Y-10 galvanised mild steel lifting bars of 380mm overall girth	No	12		
<b><u>WATER SUPPLIES</u></b>					
<b><u>Internal water supplies:</u></b>					
<b><u>PVC Polywater pipes:</u></b>					
7	12mm Pipes fixed to walls, etc.	m	20		
<b><u>Extra over PVC pipes for fittings:</u></b>					
8	12mm Pipe fittings.	No	15		
<b><u>SANITARY FITTINGS AND GEYSERS</u></b>					
<b><u>Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc., and connecting up pipework and handing over in perfect working order at completion:</u></b>					
9	Charlog 200 VIP pedestal c/w seat and pan or similar approved	No	5		
10	Christy plastic wash hand basin, with galvanised bracket, or similar approved	No	4		
<b><u>TAPS, VALVES, ETC.</u></b>					
11	12mm Charlog Pro Close PVC tap	No	4		
12	15mm Ball-o-stop valve.	No	3		
Carried to Collection				R	
Section No. 4					
Bill No. 10					
Plumbing And Drainage					

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Amount

**SECTION NO. 4**  
**SUPERSTRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I**  
**BILL NO. 10**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

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Bill No. 10  
Plumbing And Drainage



	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b> <b><u>ABLUTION BLOCK I</u></b> <b><u>BILL NO. 11</u></b> <b><u>GLAZING</u></b> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>GLAZING TO STEEL WITH PUTTY</u></b> <b><u>4mm SABS approved sandblasted glass puttied window sections or similar approved:</u></b>				
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m²	1	
<b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u></b> <b><u>6mm 'GG' quality polished silvered float glass copper backed mirrors with polished edges holed for and fixed with round rose chromium plated mirror screws with rubber buffers to plugs in brickwork or concrete:</u></b>				
2	Mirror 450 x 600mm high with four screws.	No	4	
Carried To Section Summary			R	
Section No. 4 Bill No. 11 Glazing				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>SUPERSTRUCTURE GRADE R 5-SEATER</u></b> <b><u>ABLUTION BLOCK I</u></b> <b><u>BILL NO. 12</u></b> <b><u>PAINTWORK</u></b> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>SUPPLEMENTARY PREAMBLES</u></b> <p>Colours shall be to the Architect's approved colours and there shall be no variation in price due to type of colours. The tenderer is deemed to have allowed for this in his rates</p> <p>Doors to be lightly sanded and cleaned of dust and dirt before application of paint</p> <b><u>ON FLOATED PLASTER SURFACES</u></b> <p><b><u>Prepare surfaces and remove all loose material, apply one coat "Dulux" Trade alkaline resistant primer, one undercoat "Dulux" Trade Universal and two coats "Dulux" Pearglo water-based paint, or similar approved on:</u></b></p>				
1 Interior walls.	m <sup>2</sup>	97		
<b><u>ON WOOD</u></b> <p><b><u>Prepare and apply two coats carbolineum on:</u></b></p>				
2 Roof timbers at eaves and verges. (measured on flat area)	m <sup>2</sup>	11		
<p><b><u>Strip, sand down, prepare and apply one coat approved wood primer undercoat and two coats approved gloss enamel</u></b></p>				
3 Exterior doors.	m <sup>2</sup>	7		
4 Interior door.	m <sup>2</sup>	3		
<b><u>ON FASCIA AND BARGEBOARDS</u></b> <p><b><u>Prepare and apply one coat zinc chromate to nail heads and H-spline strips, one universal undercoat, stop and apply two finishing coats of eggshell enamel on:</u></b></p>				
5 Fascias, bargeboards, etc.	m <sup>2</sup>	8		
Carried To Section Summary			R	
Section No. 4 Bill No. 12 Paintwork				

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**SECTION NO. 4**  
**SUPERSTRUCTURE GRADE R 5-SEATER ABLUTION BLOCK I**  
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## **SECTION NO. 5**

### **SUB-STRUCTURE GRADE R 2 CLASSROOM**

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 5</u></b> <b><u>SUB-STRUCTURE GRADE R 2 CLASSROOM</u></b> <b><u>BILL NO. 1</u></b> <b><u>EARTHWORKS</u></b>  <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Filling</u></b> <p>Notwithstanding the reference to prescribed multiple handling in clause 1, Earthworks, of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material</p> <b><u>Testing</u></b> <p>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D except for additional specialist testing as instructed by the Engineer.</p> <b><u>Proving existing services on site:</u></b> <p>The Contractor is to allow for the cost for proving the existence of any unknown services (sewer, stormwater, electricity, etc) running through the site. The Contractor is also to allow for the cost for proving any known services that may not be located where indicated on Municipal plans.</p>				
1	Item			
<b><u>Proving of services as per the Supplementary Preambles above.</u></b>  <b><u>Carting away of excavated material:</u></b> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p>				
<b><u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u></b> <b><u>Excavation in earth not exceeding 2m deep:</u></b>				
2	m <sup>3</sup>	53		
3	m <sup>3</sup>	2		
4	m <sup>3</sup>	35		
Carried to Collection			R	
Section No. 5 Bill No. 1 Earthworks				

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		Unit	Quantity	Rate	Amount
<b><u>SOIL POISONING</u></b>					
<b><u>Soil insecticide in accordance with SANS 5859:</u></b>					
15	Under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming.	m²	395		
16	To bottoms and sides of trenches etc.	m²	195		
Carried to Collection				R	
Section No. 5					
Bill No. 1					
Earthworks					

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**SECTION NO. 5**  
**SUB-STRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 1**  
**EARTHWORKS**  
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	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 5</u></b> <b><u>SUB-STRUCTURE GRADE R 2 CLASSROOM</u></b> <b><u>BILL NO. 2</u></b> <b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>  <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Cost of tests:</u></b> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Principal Agent. (Test cubes are measured separately).</p> <b><u>Formwork:</u></b> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Unless otherwise described, formwork to all concrete is deemed to include for propping exceeding 1,5m and not exceeding 3,5m high above bearing level.</p> <p>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.</p> <b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b> <b><u>25 MPa/19mm Concrete:</u></b>				
1	Strip footings.	m <sup>3</sup>	15	
Carried to Collection			R	
Section No. 5 Bill No. 2 Concrete, Formwork And Reinforcement				

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**SECTION NO. 5**  
**SUB-STRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 2**  
**CONCRETE, FORMWORK AND REINFORCEMENT**  
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Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 5</u></b> <b><u>SUB-STRUCTURE GRADE R 2 CLASSROOM</u></b> <b><u>BILL NO. 3</u></b> <b><u>MASONRY</u></b>  The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder. <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>BRICKWORK</u></b> <b><u>Sizes in description</u></b> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <b><u>Facebricks</u></b> Bricks shall be ordered timeously to obtain uniformity in size and colour <b><u>Pointing</u></b> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc. <b><u>Wall ties, etc.</u></b> The minimum thickness of the galvanising to wall ties to be 750g/m <sup>2</sup> <b><u>BRICKWORK IN FOUNDATIONS</u></b> <b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>				
1	m <sup>2</sup>	49		
2	m <sup>3</sup>	1		
<b><u>BRICKWORK SUNDRIES</u></b> <b><u>Brickwork reinforcement:</u></b>				
3	m	288		
Carried to Collection			R	
Section No. 5 Bill No. 3 Masonry				

	Unit	Quantity	Rate	Amount
<b><u>FACE BRICKWORK</u></b>				
<b><u>Corobrik Firelight Satin FBX clay face brick of size 222 x 106 x 73mm manufactured in accordance with SANS 227:2007, bedded and jointed in class I mortar and pointed with recessed vertical and horizontal joints suitable for exposure zones 1-4</u></b>				
4 Extra over brickwork for face brickwork in foundations (Provisional)	m²	42		
Carried to Collection			R	
Section No. 5				
Bill No. 3				
Masonry				
5-11				

Amount

**SECTION NO. 5**  
**SUB-STRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 3**  
**MASONRY**  
**COLLECTION**

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Bill No. 3  
Masonry

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**SECTION NO. 5**  
**SUB-STRUCTURE GRADE R 2 CLASSROOM**  
**SECTION SUMMARY**

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SECTION SUMMARY

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R



## **SECTION NO. 6**

# **SUPERSTRUCTURE GRADE R 2 CLASSROOM**

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 6</u></b>				
<b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b>				
<b><u>BILL NO. 1</u></b>				
<b><u>MASONRY</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Sizes in description</u></b>				
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
<b><u>Hollow walls</u></b>				
Descriptions of hollow walls shall be deemed to include leaving perpend, at maximum 1m centres, of the bottom course of the external skin open as a weep hole				
<b><u>Facebricks</u></b>				
Bricks shall be ordered timeously to obtain uniformity in size and colour				
<b><u>Pointing</u></b>				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.				
<b><u>Wall ties, etc.</u></b>				
The minimum thickness of the galvanising to wall ties to be 750g/m <sup>2</sup>				
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>				
1	Half brick walls.	m <sup>2</sup>	42	
2	Ditto, but in beamfilling.	m <sup>2</sup>	29	
3	One brick walls of two half brick skins with inner skin bagged and sealed.	m <sup>2</sup>	158	
4	Piers.	m <sup>3</sup>	1	
<b><u>BRICKWORK SUNDRIES</u></b>				
<b><u>Brickwork reinforcement:</u></b>				
5	75mm Wide reinforcement built in horizontally.	m	111	
6	150mm Wide reinforcement built in horizontally.	m	618	
Carried to Collection			R	
Section No. 6				
Bill No. 1				
Masonry				

		Unit	Quantity	Rate	Amount
	<b>Prestressed fabricated precast lintels including necessary temporary supports:</b>				
7	110 x 70mm Lintels in lengths not exceeding 3m.	m	35		
	<b>Turning pieces to lintels, etc:</b>				
8	220mm Wide turning piece to lintels etc.	m	25		
	<b>Galvanised wire ties etc:</b>				
9	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.	No	55		
	<b>Air bricks etc:</b>				
10	229 x 152mm Terracotta air brick.	No	34		
	<b>FACE BRICKWORK</b>				
	<b>Corobrik Firelight Satin FBX clay face brick of size 222 x 106 x 73mm manufactured in accordance with SANS 227:2007, bedded and jointed in class I mortar and pointed with recessed vertical and horizontal joints suitable for exposure zones 1-4</b>				
11	Extra over brickwork for face brickwork.	m <sup>2</sup>	124		
12	Extra over brickwork for internal face brickwork dado.	m <sup>2</sup>	57		
13	Extra over brickwork for facing 450 x 220mm piers.	m <sup>2</sup>	3		
14	Extra over brickwork for facing gable walls.	m <sup>2</sup>	15		
15	Extra over brickwork for facing beamfilling.	m <sup>2</sup>	57		
16	Fair raking cutting.	m	20		
	<b>Brick-on-edge header course copings, sills, etc of Corobrik Firelight Satin FBX clay face brick bedded and jointed in Class I mortar and pointed with recessed vertical and horizontal joints</b>				
17	230mm Wide sill set sloping and slightly projecting.	m	23		
18	Face brick-on-edge header course lintel.	m	25		
	<b>PAVING</b>				
	<b>Paving of type G-interlocking precast concrete paving blocks with butt joints on 30mm river sand bed with sand swept into joints, including preparation of ground or filling.</b>				
19	Paving of 60mm thick blocks including edge blocks set to falls.	m <sup>2</sup>	51		
				R	
Carried to Collection					
Section No. 6 Bill No. 1 Masonry					

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Amount

**SECTION NO. 6**  
**SUPERSTRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 1**  
**MASONRY**  
**COLLECTION**

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Section No. 6  
Bill No. 1  
Masonry

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 6</u></b>				
<b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b>				
<b><u>BILL NO. 2</u></b>				
<b><u>WATERPROOFING</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>				
<b><u>One layer of 375 micron embossed polyethylene damp-proof course (SANS 952-1985 type B)</u></b>				
1 In walls, under eills, etc.	m <sup>2</sup>	42		
<b><u>One layer of 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u></b>				
2 Under surface beds.	m <sup>2</sup>	153		
<b><u>JOINT SEALANTS, ETC.</u></b>				
<b><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u></b>				
3 3 x 50mm In saw cut joints in floors.	m	104		
4 15 x 10mm In isolation joints including raking out isolation joint filler.	m	152		
Carried To Section Summary			R	
Section No. 6				
Bill No. 2				
Waterproofing				

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 6</b>				
<b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b>				
<b><u>BILL NO. 3</u></b>				
<b><u>ROOF COVERINGS</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>CORRUGATED METAL SHEETING AND ACCESSORIES</u></b>				
<b><u>0,5mm IBR SAFINTRA WIDEDEK or similar approved finished steel sheeting and accessories fixed to timber purlins (elsewhere):</u></b>				
1	Roof covering with pitch not exceeding 25 degrees. (area measured on flat)	m <sup>2</sup>	331	
<b><u>0,5mm SAFINTRA or similar approved flashings:</u></b>				
2	Ridge capping to suit roof profile.	m	23	
<b><u>EAVES, VERGES, ETC.</u></b>				
<b><u>"Marley Pipe Systems" uPVC fascia boards or similar approved with aluminium H-profile fascia joiners fixed with hot-dip galvanised screws and washers.</u></b>				
3	12 x 225mm fascia boards	m	56	
<b><u>"Marley Pipe Systems" uPVC socketless barge boards or similar approved with uPVC H-profile bargeboard joiners fixed with hot-dipped galvanised screws and washers fixed to 76 x 50mm trimmer batten fixed to underside of purlin ends for barge board fixing.</u></b>				
4	200 x 800mm barge boards	m	30	
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>"Marley Pipe Systems"</u></b>				
<b><u>Marley uPVC gutters or similar approved in maximum possible lengths and fixed with concealed brackets laid to falls 1:200 towards outlet, joints at corners etc, if any are to be accurately formed, sealed and rivetted to achieve a watertight finish and brackets to be fixed at maximum 1m centres.</u></b>				
5	110mm Diameter eaves gutters.	m	56	
6	Extra over gutter for stopped end.	No	6	
Carried to Collection			R	
Section No. 6				
Bill No. 3				
Roof Coverings				

		Unit	Quantity	Rate	Amount
7	Extra over 110mm diameter eaves gutter for outlet for 75mm diameter pipe.	No	4		
8	75mm Diameter rainwater pipes from gutter to tank	m	10		
9	75mm Diameter rainwater pipes.	m	5		
10	Extra over rainwater pipe for bend.	No	4		
11	Extra over rainwater pipe for shoe.	No	2		
12	Extra over rainwater pipe for eaves offset 500mm projection.	No	4		
<b><u>ROOF INSULATION</u></b>					
<b><u>'Sisalation 420' or similar approved heavy industrial grade aluminium foil based insulation.:</u></b>					
13	Insulation laid taut over battens (at approximately 380mm centres) and fixed concurrent with roof covering including galvanised steel straining wires, laps, etc.	m <sup>2</sup>	331		
Carried to Collection				R	
Section No. 6					
Bill No. 3					
Roof Coverings					

Amount

**SECTION NO. 6**  
**SUPERSTRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 3**  
**ROOF COVERINGS**  
**COLLECTION**

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Roof Coverings



	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 6</u></b> <b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b> <b><u>BILL NO. 4</u></b> <b><u>CARPENTRY AND JOINERY</u></b>  The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.  <b><u>SUPPLEMENTARY PREAMBLES</u></b>  Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent.  All trusses shall be designed by a registered Professional Engineer in accordance with SABS Code of Practice for Design of Timber Structures.  The complete structure shall be inspected by the truss designer to ensure that the manufacture and erection details have been complied with.  <b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>  <b><u>Wrought SA Pine:</u></b> 1 114 x 38mm Wall plates. m 44 2 38 x 176mm Common rafters in lengths exceeding 2.4m and not exceeding 4.8m. m 38 3 76 x 50mm Purlins. m 53  <b><u>Design, supply and installation of prefabricated timber roof construction complete including purlins, runners, bracing hips, valleys, cleats, purlins, etc., supplied and fixed complete:</u></b> 4 Trusses for rectangular shaped building, size overall 21.98x9.35m on plan (Grade R 2 classroom). No 1  <b><u>STRUCTURAL TIMBERWORK, ETC.</u></b> <b><u>Wrought laminated Class 7 SA Pine:</u></b> 5 50 x 228 High bolted beams fixed to structural steel to receive roof timbers (structural steel and roof timbers elsewhere). m 33  <b><u>SKIRTINGS</u></b> <b><u>Wrought meranti:</u></b> 6 19 x 76mm Skirtings including 19mm quadrant bead, nailed. m 93  <div> <div>Carried to Collection</div> <div>R</div> </div>				
Section No. 6 Bill No. 4 Carpentry And Joinery				

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Amount

**SECTION NO. 6**  
**SUPERSTRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 4**  
**CARPENTRY AND JOINERY**  
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Section No. 6  
Bill No. 4  
Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 6</u></b> <b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b> <b><u>BILL NO. 5</u></b> <b><u>CEILINGS PARTITIONS AND ACCESS FLOORING</u></b>  The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.  <b><u>NAILED UP AND SCREW UP CEILINGS</u></b> <b><u>6,4mm Gypsum plasterboards with H-profile galvanised steel jointing strips:</u></b>				
1				
Ceilings including 38 x 38mm sawn softwood brandering at 450mm centres with cross brandering at 450mm centres and at joints, ends of sheets and at light fittings, etc.				
	m <sup>2</sup>	153		
2				
Extra over ceiling for 600 x 600mm hinged trap door of wrought softwood rebated framing with one sawn softwood cross brander covered with ceiling board and fitted flush in opening, including necessary trimmers all around.				
	No	2		
Carried To Section Summary				R
Section No. 6				
Bill No. 5				
Ceilings Partitions And Access Flooring				

**SECTION NO. 6**  
**SUPERSTRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 6**  
**FLOOR COVERINGS**

The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.

**VINYL FLOOR COVERINGS, WALL LININGS, ETC.**  
**300 x 300 x 2,5mm Thick semi flexible vinyl floor tiles laid in two colour pattern fixed with an approved adhesive:**

1 On screeded floors.

Unit	Quantity	Rate	Amount
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m²	153		
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Carried To Section Summary

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Section No. 6  
Bill No. 6  
Floor Coverings

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 6</u></b>				
<b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b>				
<b><u>BILL NO. 7</u></b>				
<b><u>IRONMONGERY</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>IRONMONGERY FIXED TO DOORS, ETC.</u></b>				
<b><u>LOCKS:</u></b>				
1	No	4		
75mm Two lever security lockset with satin chrome furniture.				
2	No	2		
Union MG47 47mm padlock or similar				
<b><u>NUMERAL AND NAMEPLATES, ETC.</u></b>				
<b><u>Clear perspex name plate reverse engraved and enamelled in white lettering 25mm high to suit, twice countersunk holed for and tapscrewed to steel door frames or gate framing with chromium plated dome-headed selftapping screws:</u></b>				
3	No	2		
Ditto, but with letters 'CLASSROOMS'.				
<b><u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws:</u></b>				
4	No	2		
190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork.				
<b><u>PELMET AND CURTAIN TRACKS</u></b>				
<b><u>Kirsch:</u></b>				
5	m	23		
Double curtain track for soffit fixing including 14 rollers per metre, brackets, stopped ends, etc plugged to brickwork.				
<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u></b>				
<b><u>Carpet pinning boards in aluminium frame with round plastic corners, pen tray and fixing component all fixed according to manufacturer's instruction.</u></b>				
6	No	2		
Pinning board size 2400 x 1200mm high plugged.				
7	No	2		
Ditto, but size 4200 x 1200mm high plugged.				
Carried to Collection			R	
Section No. 6				
Bill No. 7				
Ironmongery				

		Unit	Quantity	Rate	Amount
<b><u>Swing type green chalkboard to comply with CKS-36-1980 or equivalent code of practice, complete with chalk rail as one unit fixed to wall strictly according to manufacturers instruction:</u></b>					
8	Chalk board size overall 1140mm high x 3600mm wide consisting of 1 x chalkboard 1800mm wide, 2 x chalkboard 900mm wide, 2 x swing type chalkboard 900mm wide.	No	2		
Carried to Collection				R	
Section No. 6 Bill No. 7 Ironmongery					
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**SECTION NO. 6**  
**SUPERSTRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 7**  
**IRONMONGERY**  
**COLLECTION**

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Section No. 6  
Bill No. 7  
Ironmongery



		Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 6</u></b> <b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b> <b><u>BILL NO. 8</u></b> <b><u>STRUCTURAL STEELWORK</u></b>  <b><u>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</u></b> <b><u>Descriptions</u></b> Descriptions of bolts shall be deemed to include nuts and washers  Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete  Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete  <b><u>GALVANISED STEEL COLUMNS AND BEAMS</u></b> <b><u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u></b>					
1	102 x 5mm x 12kg/m CHS columns	Tonnes	0.42		
<b><u>BOLTS, FASTENERS, ETC</u></b> <b><u>Bolts and fasteners</u></b>					
2	16mm Diameter chemical anchor	No	44		
Carried To Section Summary				R	
Section No. 6 Bill No. 8 Structural Steelwork					

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 6</b>				
<b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b>				
<b><u>BILL NO. 9</u></b>				
<b><u>METALWORK</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>STEEL WINDOWS, DOORS, ETC.</u></b>				
<b><u>Standard residential windows with steel burglar bars to fixed lights and opening sashes:</u></b>				
1 Window of size 1302 x 511mm high with one opening light complete with approved standard brass fittings and including 10mm square galvanised steel burglar bars at 150mm centres.	No	2		
2 Window of size 1302 x 1445mm high with one opening light complete with approved standard brass fittings and including 10mm square galvanised steel burglar bars at 150mm centres.	No	6		
3 Window of size 1302 x 978mm high with one opening light complete with approved standard brass fittings and including 10mm square galvanised steel burglar bars at 150mm centres.	No	10		
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>1,2mm Galvanised mild steel double rebated frames suitable for one brick walls including 1.5 pairs brass butt hinges per leaf:</u></b>				
4 Frame for door 813 x 2032mm high.	No	2		
<b><u>1,2mm Galvanised mild steel double rebated frames suitable for half brick walls including 1.5 pairs brass butt hinges per leaf:</u></b>				
5 Frame for door 813 x 2032mm high.	No	2		
<b><u>SECURITY GATES</u></b>				
<b><u>Steel security gates:</u></b>				
6 Size 925mm x 2082mm high per Architect's detail.	No	2		
Carried To Section Summary			R	
Section No. 6				
Bill No. 9				
Metalwork				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 6</u></b> <b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b> <b><u>BILL NO. 10</u></b> <b><u>PLASTERING</u></b>  The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder. <b><u>CEMENT SCREEDS</u></b> <b><u>Cement screed on concrete</u></b>				
1	30mm Thick screeds steel trowelled on concrete floors.	m <sup>2</sup>	153	
<b><u>GRANOLITHIC</u></b> <b><u>Untinted granolithic on concrete</u></b>				
2	40 mm Thick on floors .	m <sup>2</sup>	40	
<b><u>INTERNAL PLASTER</u></b> <b><u>One coat cement plaster steel trowelled on brickwork or concrete</u></b>				
3	On walls.	m <sup>2</sup>	179	
4	On narrow widths.	m <sup>2</sup>	11	
Carried To Section Summary			R	
Section No. 6 Bill No. 10 Plastering				

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 6</u></b></p> <p><b><u>SUPERSTRUCTURE GRADE R 2 CLASSROOM</u></b></p> <p><b><u>BILL NO. 11</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p>The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Sealing of edges</u></b></p> <p>Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone</p> <p><b><u>Polycop/Polywater polypropylene pipes</u></b></p> <p>Polycop pipes 54mm diameter and smaller shall be seamless Class 16 pipes jointed with Fast-fuse heat welded thermoplastic or where so described Polylock compression fittings. Pipes shall be firmly fixed to walls, etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><b><u>Fixing of pipes</u></b></p> <p>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</p> <p>Holes, chases, etc., are deemed to be included in the descriptions of the pipework.</p> <p><b><u>Disinfection of water pipework</u></b></p> <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L</p> <p><b><u>General</u></b></p> <p>Rates for all taps, valves, traps, water heaters, meters, etc shall be deemed to include for necessary male or female couplings and connections to pipework.</p> <p>Labour bends are deemed to be included in the rates for piping and are therefore not measured separately.</p> <p>Bends, junctions etc are measured as a single fitting. Should the contractor elect to use more than one fitting (eg 2 x 45 degree bend to create one bend or slow bend, or a reducer and a tee to create a reducing tee) the final measure will count it as a single fitting.</p>				
Carried to Collection			R	
<p>Section No. 6</p> <p>Bill No. 11</p> <p>Plumbing And Drainage</p>				

	Unit	Quantity	Rate	Amount
<b><u>SANITARY PLUMBING</u></b>				
<b><u>Unplasticised polyvinyl chloride (uPVC) pipes:</u></b>				
1 50mm Pipes fixed to walls, etc.	m	10		
2 110mm Pipes fixed to walls, etc.	m	4		
<b><u>Extra over uPVC pipes for:</u></b>				
3 50mm Bend.	No	10		
4 110mm Bend.	No	4		
<b><u>WATER SUPPLIES</u></b>				
<b><u>Internal water supplies:</u></b>				
Prices for all piping laid in ground, inspection chambers, etc. shall include for excavations, keeping free of water, distributing surplus material on site (carting away has been separately measured) and backfilling in selected material (imported fill where required will be separately measured).				
Holes, chases, etc., are deemed to be included in the descriptions of the pipework.				
<b><u>PVC Polywater pipe</u></b>				
5 12mm Pipes fixed to walls, etc.	m	20		
6 Ditto, but 22mm pipes.	m	10		
<b><u>Extra over PVC pipes for PVC fittings:</u></b>				
7 12mm Pipe fittings.	No	15		
8 22mm Pipe fittings.	No	8		
<b><u>SANITARY FITTINGS AND GEYSERS</u></b>				
<b><u>Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc., and connecting up pipework and handing over in perfect working order at completion:</u></b>				
<b><u>'Franke' - grade 304 (18/10) polished stainless steel:</u></b>				
9 'Curveline Model CVN611' drop-on single end bowl sink, size 800 x 435mm, fixed to cupboard (cupboard by others) with securing clips and sealed with silicone adhesive along edges or similar approved	No	2		
Carried to Collection			R	
Section No. 6				
Bill No. 11				
Plumbing And Drainage				

[illegible]

Amount

**SECTION NO. 6**  
**SUPERSTRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 11**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

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Bill No. 11  
Plumbing And Drainage

SECTION NO. 6

SUPERSTRUCTURE GRADE R 2 CLASSROOM

BILL NO. 12

GLAZING

The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.

GLAZING TO STEEL WITH PUTTY

4mm Clear float glass:

1

Panes exceeding 0,1m² and not exceeding 0,5m².

Unit

Quantity

Rate

Amount

m²

25

Carried To Section Summary

R

Section No. 6

Bill No. 12

Glazing



6-25

[illegible]

Amount

**SECTION NO. 6**  
**SUPERSTRUCTURE GRADE R 2 CLASSROOM**  
**BILL NO. 13**  
**PAINTWORK**  
**COLLECTION**

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Bill No. 13  
Paintwork

Amount

**SECTION NO. 6**  
**SUPERSTRUCTURE GRADE R 2 CLASSROOM**  
**SECTION SUMMARY**

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5	CEILINGS PARTITIONS AND ACCESS FLOORING	6-12
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SECTION SUMMARY

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**SECTION NO. 7**  
**EXTERNAL WORKS (PROVISIONAL)**

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 7</u></b>				
<b><u>EXTERNAL WORKS (PROVISIONAL)</u></b>				
<b><u>BILL NO. 1</u></b>				
<b><u>EARTHWORKS</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Carting away of excavated material:</u></b>				
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.				
<b><u>SITE CLEARANCE, ETC.</u></b>				
<b><u>Site clearance:</u></b>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m <sup>2</sup>	520	
2	Stripping average 150mm thick layer of top soil and stockpiling on site.	m <sup>2</sup>	520	
<b><u>BULK EXCAVATIONS ETC</u></b>				
<b><u>Open face excavation in earth over sloping site</u></b>				
3	Cut to spoil	m <sup>3</sup>	680	
<b><u>Extra over bulk excavations in earth for excavation in</u></b>				
4	Soft rock	m <sup>3</sup>	68	
5	Hard rock	m <sup>3</sup>	34	
<b><u>Extra over bulk excavations in earth for breaking up and removing</u></b>				
6	Brickwork	m <sup>3</sup>	2	
7	Reinforced concrete	m <sup>3</sup>	2	
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
Carried To Section Summary			R	
Section No. 7				
Bill No. 1				
Earthworks				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 7</u></b>				
<b><u>EXTERNAL WORKS (PROVISIONAL)</u></b>				
<b><u>BILL NO. 2</u></b>				
<b><u>PLUMBING AND DRAINAGE</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>STORMWATER DRAINAGE</u></b>				
<b><u>Unplasticised polyvinyl chloride (uPVC) pipes:</u></b>				
1	50mm Pipes laid in and including trenches exceeding 1 and not exceeding 2m deep.	m	10	
2	110mm Pipes laid in and including trenches exceeding 1 and not exceeding 2m deep.	m	50	
3	160mm Class 32 HD uPVC Pipes laid in and including trenches exceeding 1 and not exceeding 2m deep.	m	90	
<b><u>Extra over uPVC pipes for fittings:</u></b>				
4	50mm Bend.	No	5	
5	110mm Bend.	No	10	
6	160mm Bend.	No	12	
<b><u>Inspection chamber, catchpits, etc.</u></b>				
<b><u>Stormwater grid inlets shall be constructed complete in accordance with the Engineer's drawing 51471-08 ad shall include for excavations, concrete base, brick walls, precast rings, cover slab with rebated openings, general backfilling, cement stabilised backfilling and haunching, etc.</u></b>				
7	Excavate and build 1020 x 1020mm stormwater grid inlet with one brick sides in extra hard burned bricks crossbonded in English bond and laid in class 1 mortar finished with one coat internal plaster with 200mm thick mass concrete 25MPa/19mm stone base fitted with cast iron grating and frame (elsewhere) on HD precast concrete cover slab to falls with smooth finish on exposed faces and bottom benched up in 15MPa/8mm stone finished smooth in 1:1 cement plaster around channels not exceeding 1m deep as per Engineer's drawing 51471-08.	No	6	
Carried to Collection			R	
Section No. 7				
Bill No. 2				
Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
	<b><u>Stormwater Discharge Headwall:</u></b>				
8	1700 x 595 x 450mm High headwall for stormwater discharge on reinforced concrete base with 230mm thick screen wall to receive 200mm diameter stormwater pipe including all excavations, reinforced concrete base, brick walls, general backfilling, cement stabilised backfilling, stone pitching, etc. as required in accordance with the Engineer's drawing 51471-08.	No	1		
	<b><u>TANKS, ETC.</u></b>				
	<b>'Jo-Jo':</b>				
9	2500 Litre water storage tank, size approximately 1420mm diameter x 1700mm high.	No	2		
10	Charlog safe tank tap or similar approved, including forming outlet opening, all necessary fittings, etc.	No	2		
	<b><u>Soakaway</u></b>				
11	Provide for the installation of 7.5 meter long Kaytech Infiltration Chamber, or similar approved, including all excavations, backfill, piping, fittings etc., complete.	No	1		
12	650 x 650 Deep French Drain 5m long on level base with 200mm compacted soil cover including filter fabric with 50% shade cloth double wrapped on top receiving 110mm diameter PVC perforated distribution pipe and stone aggregate or rubble backfill throughout base of drain including all excavations, plumbing, general backfilling, cement stabilised backfilling, stone dressing, etc as required constructed complete.	No	1		
	Carried to Collection			R	
Section No. 7					
Bill No. 2					
Plumbing And Drainage					

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Amount

**SECTION NO. 7**

### EXTERNAL WORKS (PROVISIONAL)

## BILL NO. 2

## PLUMBING AND DRAINAGE

**COLLECTION**

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Section No. 7

Bill No. 2

## Plumbing And Drainage

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 7</u></b>				
<b><u>EXTERNAL WORKS (PROVISIONAL)</u></b>				
<b><u>BILL NO. 3</u></b>				
<b><u>EXTERNAL WORKS</u></b>				
The Tenderer is referred to the relevant clauses in the separate document "Model Preambles for Trades" and to the Supplementary Preambles incorporated at the front of these Bills of Quantities as well as hereunder.				
<b><u>THE FOLLOWING IN BASES TO WATER TANKS</u></b>				
<b><u>Plinth for jojo tank</u></b>				
1	Excavate for raft foundation not exceeding 2m deep.	m <sup>3</sup>	11	
2	Risk of collapse not exceeding 1.5 m deep.	m <sup>2</sup>	18	
3	Extra over excavations for carting away surplus material to a dumping site to be located by the contractor.	m <sup>3</sup>	11	
4	Mass concrete 25MPa in raft foundation.	m <sup>3</sup>	4	
5	One brick wall.	m <sup>2</sup>	20	
6	Extra over ordinary brickwork for external Corobrik Firelight Satin facings.	m <sup>2</sup>	20	
7	External Corobrick Firelight Satin face brick-on edge course to top of one brick wall.	m	20	
8	G6 earth filling supplied by the contractor in 150mm layers compacted to 93% MOD AASHTO density under floors.	m <sup>3</sup>	8	
9	25Mpa reinforced concrete surface slab	m <sup>3</sup>	2	
10	Cement Mortar bedding for tank	m <sup>3</sup>	3	
11	Fabric reinforcement - Mesh ref 193	m <sup>2</sup>	13	
12	Fabric reinforcement - Mesh ref 395	m <sup>2</sup>	13	
<b><u>"V" - Drain around plinth for rainwater tank</u></b>				
13	Compaction of ground surfaces under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m <sup>2</sup>	24	
14	Earth filling supplied by the Contractor compacted in 150mm layers to 93% Mod AASHTO at -1 to +2 of its optimum moisture content under apron slabs	m <sup>3</sup>	7	
Carried to Collection			R	
Section No. 7				
Bill No. 3				
External Works				

		Unit	Quantity	Rate	Amount
15	20MPa/19mm Concrete for apron slabs cast to falls 1:200 away from building	m <sup>3</sup>	4		
16	Fabric reinforcement - Mesh ref 193 to apron slab	m <sup>2</sup>	24		
17	Rough formwork to edges, risers, ends and reveals not exceeding 300mm high or wide.	m	27		
<b><u>INTERLOCKING BLOCK RETAINING WALLS</u></b>					
18	Unreinforced concrete (20MPa/19mm) in stepped strip footings.	m <sup>3</sup>	12		
19	Excavating in earth not exceeding 2m deep for trenches.	m <sup>3</sup>	10		
20	Backfilling behind block retaining wall with Coarse river sand filling compacted to 95% MOD AASHTO maximum density.	m <sup>3</sup>	13		
21	Nelton N200 or similar approved slatted uPVC agricultural pipes laid behind retaining wall including 19mm crushed stone encasing size 400 x 400mm and bidum A2 geofabric filter blanket wrapped around encasing with 150mm side and 300mm end laps including stitching.	m	65		
<b><u>Loffelstein Precast Concrete Interlocking Planter units finished smooth on exposed surfaces.</u></b>					
22	Retaining wall with stepped face and curves with Type L300 interlocking units with 250mm thick river sand drainage layer and U24 bidim filter blanket at back including trimming and backfilling to suit with earth from the excavations and filling the units with sand from excavations lightly stamped as the work proceeds.	m <sup>2</sup>	65		
<b><u>FENCING</u></b>					
<b><u>Galvanised security fence with bitumen dipped steel standards and bitumen-aluminium painted (two coats) steel pipe posts, stays, gates, etc. including galvanised steel bolts, straining eye bolts, etc., site clearance and preparation of ground</u></b>					
23	1.8m High security fence complete including all necessary reinforced concrete bases, footings etc. as required	m	160		
24	Gate of 1.8m high vertically with 30 degree overhang to suit security fencing and with one diagonal brace, the vertical section covered with diamond wire mesh and the overhang with 1 strands of razor barbed wire, including hinges, heavy duty lockable barrel bolt and brass five-pin tumbler padlock.	No	1		
Carried to Collection				R	
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Bill No. 3					
External Works					

		Unit	Quantity	Rate	Amount
<b><u>WALKWAYS</u></b>					
<b><u>Covered walkways and ramps in accordance with Architect's SDP Arch-289-19 dated 26/04/2021 and Engineer's drawing 51471-08 Figure 03:</u></b>					
25	Excavation in earth not exceeding 2m deep for reduced levels.	m <sup>3</sup>	14		
26	Excavation in earth for trenches and holes not exceeding 2m deep.	m <sup>3</sup>	18		
27	Extra over for carting away surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m <sup>3</sup>	22		
28	Keeping excavations free from water.	Item			
29	Compaction of ground surfaces under floors, etc including scarifying for a depth of 200mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density.	m <sup>2</sup>	66		
30	Imported filling with G5 150mm layers to 95% Mod AASHTO density and wetted.	m <sup>3</sup>	10		
31	Back filling to trenches and holes with excavated material or prescribed stockpiles on-site compacted in 150mm layers to 93% MOD AASHTO density and wetted..	m <sup>3</sup>	10		
32	Modified AASHTO density test.	No	2		
33	25 Mpa/19mm Reinforced concrete in walkway raft slabs and ramp surface beds.	m <sup>3</sup>	7		
34	25 Mpa/19mm Mass concrete in strip footings.	m <sup>3</sup>	4		
35	Finishing top surfaces of concrete smooth with a wood float to surface beds, slabs, etc.	m <sup>2</sup>	64		
36	Bedding approximately 20mm thick 40MPa non-shrink grout under 140 x 140mm base plates including chamfered edges all round.	No	30		
37	Rough formwork to sides of foundations.	m <sup>2</sup>	21		
38	Type 193 Fabric reinforcement in concrete surface beds, etc.	m <sup>2</sup>	42		
39	Type 245 Fabric reinforcement in concrete surface beds, etc.	m <sup>2</sup>	21		
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External Works					

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		Unit	Quantity	Rate	Amount
52	Allow the sum of R50,000.00 (Fifty Thousand Rand) for Sundry External Works.	Item			50 000 00
53	Allow the sum of R30,000.00 (Thirty Thousand Rand) for landscaping.	Item			30 000 00
54	Allow the sum of R10,000.00 (Ten Thousand Rand) for sand pit	Item			10 000 00
Carried to Collection				R	
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Bill No. 3					
External Works					
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**SECTION NO. 7**  
**EXTERNAL WORKS (PROVISIONAL)**  
**BILL NO. 3**  
**EXTERNAL WORKS**  
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**SECTION NO. 7**  
**EXTERNAL WORKS (PROVISIONAL)**  
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**SECTION NO. 8**  
**PROVISIONAL AMOUNTS**

Amount

**SECTION NO. 8**

**PROVISIONAL AMOUNTS**

**BILL NO. 1**

**BUDGETARY SUMS**

**NOTES**

**Under no circumstances must any Prime Cost Amounts, Provisional Amounts and Budgetary Allowances be extended at an amount lower than the amount given in this Bill**

**The following sums and amounts are NET, in respect of the Provisional Amounts.**

**Provisional Sums contained herein may be omitted or reduced at the Employers sole discretion and the Contractor shall NOT be entitled to claim for any loss by way of reductions or omissions of any discount or percentage relating to Provisional Amounts or PC amounts or any loss of profit related thereto.**

**BUDGETARY ALLOWANCES**

**Note: The items hereunder cover work which is not fully defined at tender date and which is intended to be executed by the contractor and/or specialists sub-contractors and will be measured at completion and priced in terms of the contract. Tenderers are to make the necessary allowances for this scope of work as no claim for additional preliminaries, etc will be entertained once this scope of work is realised. The amounts shown shall be used as directed by the Representative/ Agent and shall be deducted in whole or in part if not required.**

- 1 Provide the amount of R80,000,00 (Eighty Thousand Rand) for a Community Liaison Officer for up to 8 months only (R 10, 000.00 per month)

Item

80 000 00

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Section No. 8

Bill No. 1

Budgetary Sums

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 8</u></b>				
<b><u>PROVISIONAL AMOUNTS</u></b>				
<b><u>BILL NO. 2</u></b>				
<b><u>PROVISIONAL SUMS</u></b>				
<b><u>NOTES</u></b>				
<b><u>Under no circumstances must any Prime Cost Amounts, Provisional Amounts and Budgetary Allowances be extended at an amount lower than the amount given in this Bill</u></b>				
<b><u>The following sums and amounts are NET, in respect of the Provisional Amounts.</u></b>				
<b><u>Provisional Sums contained herein may be omitted or reduced at the Employers sole discretion and the Contractor shall NOT be entitled to claim for any loss by way of reductions or omissions of any discount or percentage relating to Provisional Amounts or PC amounts or any loss of profit related thereto.</u></b>				
<b><u>PROVISIONAL ALLOWANCES</u></b>				
<b><u>Electrical Upgrade:</u></b>				
1 Provide the sum of R125,000.00 (One Hundred and Twenty Five Thousand Rand) for Electrical Upgrade.	Item			125 000 00
2 Profit on above item.	Item			
3 Attendance on ditto.	Item			
<b><u>Lightning Protection:</u></b>				
4 Provide the sum of R18,000.00 (Eighteen Thousand Rand) for Lightning Protection.	Item			18 000 00
5 Profit on above item.	Item			
6 Attendance on ditto.	Item			
<b><u>ITC, CCTV and Access Control Wireways:</u></b>				
7 Provide the sum of R5,000.00 (Five Thousand Rand) for ITC, CCTV and Access Control Wireways.	Item			5 000 00
8 Profit on above item.	Item			
9 Attendance on ditto.	Item			
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Bill No. 2				
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**SECTION NO. 8**  
**PROVISIONAL AMOUNTS**  
**SECTION SUMMARY**

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**SECTION NO. 9**  
**ELECTRICAL**

		Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 9</u></b>					
<b><u>ELECTRICAL</u></b>					
<b><u>BILL NO. 1</u></b>					
<b><u>LOW VOLTAGE RETICULATION 1</u></b>					
<b><u>SECTION 1 : LT DISTRIBUTION</u></b>					
<b><u>DISTRIBUTION BOARDS</u></b>					
<b><u>Supply the following Distribution Boards complete with all switchgear, accessories as specified on the schematic layouts, all fitted in the factory and tested, including delivery to Site and off-loading but excluding cable terminations.</u></b>					
1	DB-A (BD094-E-SLD-01)	No	1		
2	DB-ECD (BD094-E-SLD-02)	No	1		
<b><u>Install and connect up, including earthing and conduit terminations but excluding cable terminations.</u></b>					
3	DB-A (BD094-E-SLD-01)	No	1		
4	DB-ECD (BD094-E-SLD-02)	No	1		
<b><u>Provisional Switchgear to DB's. Rate to include for supply and installation, internal wiring and connections, complete for the following switchgear.</u></b>					
5	60Amp, 5kA, 230V Earth leakage device	No	1		
6	30Amp, or less, 5kA, SP, MCB	No	1		
7	30 to 59Amp, 5kA, SP, MCB	No	1		
8	60 to 100Amp, 5kA, SP, MCB	No	1		
<b><u>CABLES and EARTH WIRE (PROVISIONAL)</u></b>					
<b><u>Rates to include for supply, delivery and installation via sleeves, cable tray or fixed to surface but excluding terminations, joints, cable trays or sleeves for 600/1000 Volts cables and earth wires:- PVC/PVC/SWA/ECC/PVC/ copper cables</u></b>					
9	16 mm <sup>2</sup> x 4 core	m	165		
10	16 mm <sup>2</sup> x 2 core	m	135		
11	4mm <sup>2</sup> x 2 core	m	200		
Carried to Collection				R	
Section No. 9					
Bill No. 1					
Low Voltage Reticulation 1					

		Unit	Quantity	Rate	Amount
<b><u>CABLE TERMINATIONS</u></b>					
<b><u>Supply, delivery, installation and labour for making-off, terminating and connecting cables and earth wires including glands, shrouds, lugs and connections for the following cables and earth wires:- PVC/PVC/SWA/ECC/PVC/ copper cables</u></b>					
12	16 mm <sup>2</sup> x 4 core	No	6		
13	16 mm <sup>2</sup> x 2 core	No	6		
14	4mm <sup>2</sup> x 2 core	No	20		
<b><u>EARTHING AND BONDING</u></b>					
15	Earth and Bond the complete all the distribution boards in accordance with the Specifications and SANS Standards.	No	8		
<b><u>TEST AND COMMISSION</u></b>					
16	Test and Commission the complete installation in accordance with the Specifications and SANS Standards	No	8		
17	Issue a Certificate of Compliance (CoC) in accordance with the SANS 10142-1 (2017) requirements per DB.	No	8		
<b><u>SLEEVES</u></b>					
<b><u>Supply and install the following underground sleeves</u></b>					
18	50mm Diameter	m	10		
19	50mm Diameter slow radius bends	No	2		
20	75mm Diameter	m	20		
21	75mm Diameter slow radius bends	No	10		
22	110mm Diameter	m	20		
23	110mm Diameter slow radius bends	No	15		
24	160mm Diameter	m	100		
25	160mm Diameter slow radius bends	No	5		
<b><u>EXCAVATION</u></b>					
<b><u>Excavate and backfill of a sleeve trench 600mm deep x 300mm wide including 200mm deep bedding material and compacting.</u></b>					
26	Ordinary material	m <sup>3</sup>	85		
27	Extra over rate for soft rock	m <sup>3</sup>	50		
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Bill No. 1					
Low Voltage Reticulation 1					

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**ELECTRICAL**  
**BILL NO. 1**  
**LOW VOLTAGE RETICULATION 1**  
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Bill No. 1  
Low Voltage Reticulation 1

		Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 9</u></b>					
<b><u>ELECTRICAL</u></b>					
<b><u>BILL NO. 2</u></b>					
<b><u>LIGHTING AND POWER</u></b>					
<b><u>SECTION 3 : POWER - GENERAL PURPOSE</u></b>					
<b><u>OUTLETS AND LIGHTING</u></b>					
<b><u>CONDUITS</u></b>					
<b><u>Supply and install PVC conduit complete with all accessories including couplings, bending, fixings and waste fixed as specified.</u></b>					
1	20 mm Conduit	m	390		
2	25 mm Conduit	m	725		
3	32 mm Conduit	m	80		
<b><u>CONDUIT BOXES</u></b>					
<b><u>Supply and install boxes complete with all accessories, including conduit terminations</u></b>					
4	60 mm round, 60 mm deep PVC box for 20 mm conduit fixed in soffit or brickwork or ceiling void	No	100		
5	100 x 50 x 50 mm galv. box, flush mounted in brickwork	No	40		
6	100 x 100 x 50 mm galv. box, flush mounted in brickwork	No	50		
<b><u>CONDUCTORS AND CABLES</u></b>					
<b><u>Supply and install PVC insulated copper conductors in required colours drawn into conduit or in trunking</u></b>					
7	1.5 mm <sup>2</sup>	m	1 715		
8	2.5 mm <sup>2</sup>	m	2 175		
9	4 mm <sup>2</sup>	m	240		
<b><u>OCCUPANCY SENSORS</u></b>					
<b><u>Supply, deliver and store the following occupancy sensor complete with all accessories</u></b>					
10	Occupancy sensor complete	No	8		
<b><u>LIGHT SWITCHES</u></b>					
<b><u>Flush mounted switch unit complete with cover plate and all accessories</u></b>					
11	16A, Single Lever, One Way	No	6		
Carried to Collection				R	
Section No. 9					
Bill No. 2					
Lighting And Power					

		Unit	Quantity	Rate	Amount
12	16A, 2 Lever, 1 Way	No	4		
13	16A, 1 Lever, 2 Way	No	2		
14	Photocell	No	5		
	<b><u>LIGHT FITTINGS</u></b>				
	<b><u>Supply, deliver and store the following light fittings complete; inclusive of lamps</u></b>				
15	Type A	No	2		
16	Type B	No	16		
17	Type C	No	10		
18	Type D	No	16		
19	TYPE G	No	8		
20	7m GRP pole EPC painted in grey, with an access slot, built in MCB complete with all accesories.	No	8		
	<b><u>Install, fix and connect to surfaces as indicated, inclusive of lamps:</u></b>				
21	Type A	No	2		
22	Type B	No	16		
23	Type C	No	10		
24	Type D	No	16		
25	TYPE G	No	8		
26	7m GRP pole EPC painted in grey, with an access slot, built in MCB complete with all accesories.	No	8		
	<b><u>SWITCHED SOCKET OUTLETS</u></b>				
	<b><u>Supply, install and connect switch socket outlets as specified including cover plates and all accessories</u></b>				
27	16 Amp switched socket outlet installed flush in wall	No	5		
28	16 Amp double switched socket outlet installed flush on wall	No	12		
29	16 Amp switch socket outlet installed in power trunking	No	16		
30	16 Amp dedicated switched socket outlet complete with shaved earthpin in power trunking	No	22		
31	16 Amp Euro two pin socket outlet installed in power skirting	No	13		
	Carried to Collection			R	
	Section No. 9				
	Bill No. 2				
	Lighting And Power				

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		Unit	Quantity	Rate	Amount
<b><u>TELEPHONE CABLING</u></b>					
61	Supply and install telephone cabling as specified	m	75		
<b><u>SUNDRIES</u></b>					
62	Provide attendance to specialist personnel for the telephone cabling	Item			
63	Provide attendance to specialist personnel for the data cabling	Item			
<b><u>TEST AND COMMISSIONING</u></b>					
64	Test and commission the complete installation as included in Section 3 of Bill No. 4 in accordance with the Specifications	Item			
Carried to Collection				R	
Section No. 9					
Bill No. 2					
Lighting And Power					
9-10					

Amount

**SECTION NO. 9**  
**ELECTRICAL**  
**BILL NO. 2**  
**LIGHTING AND POWER**  
**COLLECTION**

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Section No. 9  
Bill No. 2  
Lighting And Power

Amount

**SECTION NO. 9**

**ELECTRICAL**

**SECTION SUMMARY**

Bill No.

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- 1 LOW VOLTAGE RETICULATION 1
- 2 LIGHTING AND POWER

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Carried to Final Summary

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Section No. 9  
SECTION SUMMARY



NONDWENI PRIMARY SCHOOL ECD PROGRAMME		Page	Total
Section	<b>FINAL SUMMARY</b>		R
1	PRELIMINARIES.....		
2	ALTERATIONS.....		
3	<u>GRADE R 5 SEATER ABLUTION BLOCK</u>		
3.1	SECTION 1:SUBSTRUCTURE.....		
3.2	SECTION 2:SUPERSTRUCTURE.....		
4	<u>GRADE R DOUBLE CLASSROOM</u>		
4.1	SECTION 1:SUBSTRUCTURE.....		
4.2	SECTION 2:SUPERSTRUCTURE.....		
5	EXTERNAL WORKS.....		
6	PROVISIONAL AMOUNTS.....		
7	ELECTRICAL.....		
	SUB-TOTAL.....	R	
	<b>CONTINGENCY ALLOWANCE</b> Allow the sum equivalent to 10% of the sub-total above for contingencies, to be expended as directed by the Principal Agent and to be deducted in whole or in part if not required	R	
	<b>SUB-TOTAL</b>	R	
	ADD: VALUE ADDED TAX                      15%	R	
	<b><u>TOTAL</u></b>	R	