


**BILL OF QUANTITIES - PILOT STATION UPGRADE**

|         | REFURBISHMENT OF PILOT STATION   | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
| ITEM NO | <b>SECTION 1</b>   |      |          |      |        |
|         | <b>PRELIMINARIES</b>   |      |          |      |        |
|         | <b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>   |      |          |      |        |
|         | The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0) prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter   |      |          |      |        |
|         | The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities  |      |          |      |        |
|         | Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof   |      |          |      |        |
|         | These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents |      |          |      |        |
|         |  |      |          |      |        |
|         |  |      |          |      |        |
|         | SECTION A: PRINCIPAL BUILDING AGREEMENT  |      |          |      |        |
|         | 1 Clause 1.0 - Definitions and interpretation Interpretation (A1-A7)   |      |          |      |        |
|         |  |      |          |      |        |
|         | <b>SECTION B: GENERAL PRELIMINARIES</b>  |      |          |      |        |
|         |  |      |          |      |        |
|         | 1. General Preliminaries to Include Appointment of Local CLO, site clearance of trees, shrubs, access vegetation and make good   |      |          |      |        |
|         |  |      |          |      |        |
|         | 2. Contractor is expected to work during the day and at night  |      |          |      |        |
|         |  |      |          |      |        |
|         | <b><u>SECTION NO. 2</u></b>  |      |          |      |        |
|         |  |      |          |      |        |
|         | <b><u>DEMOLITIONS ETC</u></b>  |      |          |      |        |
|         |  |      |          |      |        |
|         | Allow R100 000.00 for demolitions as may be directed   | Item |          |      |        |
|         |  |      |          |      |        |
|         | <b><u>RENOVATIONS</u></b>  |      |          |      |        |
|         |  |      |          |      |        |
|         | Allow R 800 000.00 for renovations to management block   | Item |          |      |        |
|         |  |      |          |      |        |
|         | <b><u>SIGNAGE</u></b>  |      |          |      |        |
|         |  |      |          |      |        |
|         | <b><u>External signage</u></b>   |      |          |      |        |
|         |  |      |          |      |        |
|         | Allow R50 000.00 for external and internal signage as approved by the specialist   | Item | 1        |      | -      |
|         |  |      |          |      |        |
|         | <b><u>Allow to supply and fit station signage</u></b>  |      |          |      |        |
|         |  |      |          |      |        |
|         | Station name, to match the existing  | Item | 1        |      | -      |

|  |   |      |     |  |   |
|--|---|------|-----|--|---|
|  |   |      |     |  |   |
|  | <b><u>Straight cutting</u></b>  |      |     |  |   |
|  | -----   |      |     |  |   |
|  | PROFILED METAL SHEETING AND   |      |     |  |   |
|  | ACCESSORIES   |      |     |  |   |
|  | <b><u>ON TICKET OFFICE,ABLUTIONS AND PLATFORM AREAS (Re-measure)</u></b>  |      |     |  |   |
|  | Roof covering with pitch not exceeding 25 degrees   |      |     |  |   |
|  | 0.58mm "Klip Lok 700" Z275 spelter galvanised   |      |     |  |   |
|  | ribbed sheet steel with "Chromadek" finish on one   | m²   | 600 |  | - |
|  | side in single lengths and accessories, fixed to  |      |     |  |   |
|  | timber/steel purlins using SL 700 approved clips and fasteners all in   |      |     |  |   |
|  | accordance with manufacturer's recommendations and specifications.  |      |     |  |   |
|  |   |      |     |  |   |
|  | <b><u>PLUMBING AND DRAINAGE</u></b>   |      |     |  |   |
|  | Drainage and Water Connection   |      |     |  |   |
|  | Allow R100 000.00 on all UPVC Pipes for drainage at Ablutions and Kitchen on existing buildings and Sewer connection as per below   | item | 1   |  | - |
|  |   |      |     |  |   |
|  | <b><u>Sanitary plumbing and Manhole covers</u></b>  |      |     |  |   |
|  |   |      |     |  |   |
|  | Allow a sum of R200 000 to include 7.5% attendance and handling fee for all sanitary Plumbing work on the public ablutions,Ticket office and the at the Platform  | Item | 1   |  | - |
|  |   |      |     |  |   |
|  |   |      |     |  |   |
|  | <b><u>Sewer connection</u></b>  |      |     |  |   |
|  |   |      |     |  |   |
|  | Cutting into sides of existing manhole chamber for and connecting 110mm pipe including inserting 110mm channel junction and making good concrete benching   | Item |     |  | - |
|  |   |      |     |  |   |
|  | Storm water management  |      |     |  |   |
|  | Allow R200 000.00 for Storm water management  | item | 0   |  | - |
|  |   |      |     |  |   |
|  |   |      |     |  |   |
|  | <b><u>Structural steelwork</u></b>  |      |     |  |   |
|  |   |      |     |  |   |
|  | Allow R150 000.00 for replacement of missing steel purlins, etc and sand blasting of rusted structural steelworks, side cladding, etc   | Item | 0   |  | - |
|  |   |      |     |  |   |
|  | <b><u>STEEL ROLLER SHUTTERS</u></b>   |      |     |  |   |
|  |   |      |     |  |   |
|  | <b>Roll-Up solid galvanised, SABS 1461, &amp; epoxy coated M/S manually hand chain operated push-up roller shutter for maximum opening 3000 x 3000mm high with standard bottom rail, 75 x 0.8mm thick end-locked slats, 120mm extra-wide tamper proof guides, 4.5mm end plates, closed shaft and 2 x slidebolts, extruded with Aluminium Tbar &amp; Astragal rubber weather seal. Including galv. cover box and powder coated components incl. door curtain, end plates, cover box, guides &amp; T-bar. Door fixed to brick, concrete or structural steel jambs and concrete or steel lintel over. Contractor to provide cavity of 160mm x 120mm for recessing guides</b> |      |     |  |   |
|  |   |      |     |  |   |
|  | Manual <b>hand chain</b> Push-up Roller Shutters, for openings not exceeding 3000mm x 2500mm high.  | no   | 4   |  | - |
|  |   |      |     |  |   |
|  | <b><u>Supply and install Burglar windows</u></b>  |      |     |  |   |
|  | 600mm W x 600mm H Box windows guard constructed with 5mm of expanded metal and 50 x 50 x 6mm equal angles.  |      |     |  | - |
|  |   |      |     |  | - |
|  | 1200mm W x 600mm H Box windows guard constructed with 5mm of expanded metal and 50 x 50 x 6mm equal angles.   |      |     |  | - |
|  |   |      |     |  | - |
|  | 300mm W x 900mm H Box windows guard constructed with 5mm of expanded metal and 50 x 50 x 6mm equal angles.  |      |     |  | - |
|  |   |      |     |  |   |
|  |   |      |     |  |   |
|  | <b><u>FENCE AND GATES</u></b>   |      |     |  |   |

|  |   |                |      |  |   |
|--|---|----------------|------|--|---|
|  |   |                |      |  |   |
|  | Construct brick wall boundary wall finished both sides with face brick including all necessary excavations, backfilling, cartaway, concrete blinding, reinforcement, piers and Anti-Cut & Grind (Impenetrable meshing) and anti climb feature of 3m high including spikes   | m              | 240  |  | - |
|  |   |                |      |  |   |
|  | Supply and fit – replace heavy duty gate , with heavy duty industrial motor which allows to be operated manually also., allow all necessary fittings to be installed to the total completion of the job.  | no             | 2    |  | - |
|  |   |                |      |  |   |
|  | <b><u>PAINTWORK</u></b>   |                |      |  |   |
|  | Approved painting to structural steelworks, side cladding, etc  | m <sup>2</sup> | 1500 |  | - |
|  |   |                |      |  |   |
|  | Approved painting to external concrete/brick wall surfaces  | m <sup>2</sup> | 0    |  | - |
|  |   |                |      |  |   |
|  | <b><u>SECTION 3</u></b>   |                |      |  |   |
|  |   |                |      |  |   |
|  | <b><u>ELECTRICAL WORK</u></b>   |                |      |  |   |
|  |   |                |      |  |   |
|  | Allow <b>R 800 000.00</b> on Electrical Works and reticulation to include all power supply to the station and connection from municipal supply to iclude but not limited to High mast pole street light fitting, The luminaire to consists of a separate lamp, control gear and spigot compartment. The control gear housing to be separated from the lamp housing for thermal reasons. To be designed to operate 70/400W mercury vapour and 70/400W high- pressure sodium/metal halide lamp. | Sum            |      |  | - |
|  |   |                |      |  |   |
|  | <b>MECHANICAL WORK</b>  |                |      |  |   |
|  |   |                |      |  |   |
|  | Allow <b>R370 000.00</b> on Mechanical Works,Inclusive of Air conditioning and Fire water reticulation around the station to include Fire hydrants and signage.   | Sum            |      |  | - |
|  |   |                |      |  | - |
|  | <b>PLATFORMS</b>  |                |      |  | - |
|  | Prepare platforms to receive Asphalt(Resurfacing) to include all Yellow Markings  | m <sup>2</sup> | 900  |  | - |
|  |   |                |      |  |   |
|  | <b>PAVING/RE-SURFACING</b>  |                |      |  |   |
|  | Re-surfacing og staircases, landing, platforms, etc   | m <sup>2</sup> | 0    |  | - |
|  |   |                |      |  |   |
|  | <b>STEEL WORK</b>   |                |      |  |   |
|  |   |                |      |  |   |
|  | Allow <b>R150 000.00</b> for bullustrade and handrails to staircases and Platform furniture and dustbins, include 7.5% handling and managent fee, all works to be remeasured  | Sum            |      |  | - |
|  |   |                |      |  |   |
|  | <b>CONSTRUCTION COST</b>  |                |      |  | - |
|  |   |                |      |  |   |
|  |   |                |      |  |   |
|  | <b>FINAL SUMMARY</b>  |                |      |  | - |
|  |   |                |      |  |   |
|  |   |                |      |  |   |
|  |   |                |      |  |   |
|  | <b>SUB TOTAL</b>  |                |      |  | - |
|  |   |                |      |  |   |
|  | ADD VAT @ 15%   |                |      |  | - |
|  |   |                |      |  |   |
|  | <b>TOTAL AMOUNT</b>   |                |      |  | - |