

## Bills of Quantities

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**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**

**Bills of Quantities**

|        |                                                                                                                     |  |     |  |
|--------|---------------------------------------------------------------------------------------------------------------------|--|-----|--|
|        | <b>Brought Forward</b>                                                                                              |  | R   |  |
| 1/1/15 | Concrete Tests                                                                                                      |  | SUM |  |
| 1/1/16 | Complying with Health and Safety Specifications                                                                     |  | SUM |  |
| 1/1/17 | Complying with Environmental Management Programme<br>Act and all other statutory environmental requirements         |  | SUM |  |
| 1/1/18 | Security for the works for duration of the contract.                                                                |  | SUM |  |
| 1/1/19 | Other fixed charge obligations                                                                                      |  | SUM |  |
| 1/1/20 | Transport Material.....                                                                                             |  | SUM |  |
| 1/1/21 | .....                                                                                                               |  | SUM |  |
| 1/1/22 | Removal of site establishment                                                                                       |  | SUM |  |
|        | <b><u>TIME RELATED ITEMS</u></b>                                                                                    |  |     |  |
| 1/1/23 | Contractual requirements                                                                                            |  | SUM |  |
|        | <u>Operation and Maintenance of Facilities on Site, for<br/>Duration of Construction, (unless otherwise stated)</u> |  |     |  |
|        | <u>Facilities for Engineer</u>                                                                                      |  |     |  |
| 1/1/24 | Furnished offices                                                                                                   |  | SUM |  |
| 1/1/25 | Nameboards. (In No. 2)                                                                                              |  | SUM |  |
|        | <u>Facilities for Contractor</u>                                                                                    |  |     |  |
| 1/1/26 | Offices and storage sheds                                                                                           |  | SUM |  |
| 1/1/27 | Workshops                                                                                                           |  | SUM |  |
| 1/1/28 | Laboratories                                                                                                        |  | SUM |  |
| 1/1/29 | Living accommodation                                                                                                |  | SUM |  |
| 1/1/30 | Ablution and latrine facilities                                                                                     |  | SUM |  |
| 1/1/31 | Tools and equipment                                                                                                 |  | SUM |  |
| 1/1/32 | Water supplies, electric power, communications and<br>access                                                        |  | SUM |  |
|        | <b>Carried Forward</b>                                                                                              |  | R   |  |
|        | Section No. 1<br>PRELIMINARIES AND GENERAL<br>Bill No. 1<br>Preliminaries and General                               |  |     |  |

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**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**  
**Bills of Quantities**

| Item No |                                                                                                                                                | Quantity | Rate | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 2</u></b>                                                                                                                       |          |      |        |
|         | <b><u>ALTERATIONS</u></b>                                                                                                                      |          |      |        |
|         | Relevant Municipal by laws must be taken into consideration during the physical designs and construction.                                      |          |      |        |
|         | <u>QUANTITY SPLIT</u>                                                                                                                          |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                                                |          |      |        |
|         | <b><u>REMOVAL OF EXISTING WORK</u></b>                                                                                                         |          |      |        |
|         | <b><u>Taking down and removing:</u></b>                                                                                                        |          |      |        |
| 2/1/1   | Break down and remove 220mm boundary wall (Front entrance wall)<br>AA : 0 AB : 64                                                              | m2       | 64   |        |
| 2/1/2   | Break down and remove 600mm high one brick wall on the yard<br>AA : 0 AB : 30                                                                  | m2       | 30   |        |
| 2/1/3   | Take out and remove existing carpets<br>AA : 212 AB : 0                                                                                        | m2       | 212  |        |
| 2/1/4   | Take up and remove existing floor tiles<br>AA : 65 AB : 0                                                                                      | m2       | 65   |        |
| 2/1/5   | Hack-off and remove existing wall tiles<br>AA : 68 AB : 0                                                                                      | m2       | 68   |        |
| 2/1/6   | Take down and remove existing ceiling<br>AA : 63 AB : 0                                                                                        | m2       | 63   |        |
| 2/1/7   | Take out and remove existing welded mesh fence<br>AA : 0 AB : 111                                                                              | m        | 111  |        |
| 2/1/8   | Take down and remove existing cornice<br>AA : 79 AB : 0                                                                                        | m        | 79   |        |
| 2/1/9   | Carefully take out and remove countertops for existing Kitchen cupboards and prepare to receive new (New measured elsewhere)<br>AA : 15 AB : 0 | m        | 15   |        |
| 2/1/10  | Take out and remove existing 1,2m pedestrian gate<br>AA : 0 AB : 1                                                                             | No       | 1    |        |
|         | <b>Carried Forward</b>                                                                                                                         |          | R    |        |
|         | Section No. 2<br>ALTERATIONS<br>Bill No. 1<br>Alterations                                                                                      |          |      |        |

**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**

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|                                                           | <b>Brought Forward</b>                                                                                       |    |   | R |  |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----|---|---|--|
| 2/1/11                                                    | Take out and remove existing 3,5m sliding gate<br>AA : 0      AB : 1                                         | No | 1 |   |  |
| 2/1/12                                                    | Breakdown and remove existing water reservoir with<br>concrete platform<br>AA : 0      AB : 1                | No | 1 |   |  |
| 2/1/13                                                    | Take down and remove existing water tank including<br>steel frame (hand them to SARAO)<br>AA : 0      AB : 1 | No | 1 |   |  |
| 2/1/14                                                    | Remove existing sanitary fittings and make good - WHB<br>AA : 2      AB : 0                                  | No | 2 |   |  |
| 2/1/15                                                    | Remove existing sanitary fittings and make good - WC<br>AA : 2      AB : 0                                   | No | 2 |   |  |
| 2/1/16                                                    | Remove existing sanitary fittings and make good -<br>Bathtub<br>AA : 2      AB : 0                           | No | 2 |   |  |
| 2/1/17                                                    | Remove existing sanitary fittings and make good -<br>Shower<br>AA : 1      AB : 0                            | No | 1 |   |  |
| <b>Carried to Final Summary</b>                           |                                                                                                              |    |   | R |  |
| Section No. 2<br>ALTERATIONS<br>Bill No. 1<br>Alterations |                                                                                                              |    |   |   |  |

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| Item No |                                                                                                                                                                                               | Quantity | Rate  | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------|
|         | <b><u>BILL No. 3</u></b>                                                                                                                                                                      |          |       |        |
|         | <b><u>EARTHWORKS</u></b>                                                                                                                                                                      |          |       |        |
|         | <u>QUANTITY SPLIT</u>                                                                                                                                                                         |          |       |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                                                                                               |          |       |        |
|         | <b><u>SITE CLEARANCE ETC</u></b>                                                                                                                                                              |          |       |        |
|         | <b><u>Site clearance</u></b>                                                                                                                                                                  |          |       |        |
| 3/1/1   | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc<br>AA : 0 AB : 2964                                                        | m2       | 2,964 |        |
|         | <b><u>EXCAVATION, FILLING, ETC.</u></b>                                                                                                                                                       |          |       |        |
|         | Carting away of excavated material:<br><br>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations |          |       |        |
|         | <b><u>Excavation in earth not exceeding 2m deep:</u></b>                                                                                                                                      |          |       |        |
| 3/1/2   | Trenches<br>AA : 0 AB : 167                                                                                                                                                                   | m3       | 167   |        |
|         | <b><u>Risk of collapse of excavations:</u></b>                                                                                                                                                |          |       |        |
| 3/1/3   | Sides of trench and hole excavations not exceeding 1,5m deep.<br>AA : 0 AB : 321                                                                                                              | m2       | 321   |        |
|         | <b><u>Keeping excavations free of water:</u></b>                                                                                                                                              |          |       |        |
| 3/1/4   | Keeping excavations free of water.<br><b><u>Extra over excavations for carting away surplus material from site:</u></b>                                                                       | Item     | 1.00  |        |
| 3/1/5   | Excavation trenches<br>AA : 0 AB : 87                                                                                                                                                         | m3       | 87    |        |
|         | <b>Carried Forward</b>                                                                                                                                                                        |          | R     |        |
|         | Section No. 3<br>EARTHWORKS<br>Bill No. 1<br>Earthworks                                                                                                                                       |          |       |        |

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| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quantity | Rate | Amount |
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|         | <b><u>BILL No. 4</u></b><br><br><b><u>MASONRY</u></b><br><br><u>QUANTITY SPLIT</u><br><br>AA = Existing Building<br>AB = New ATC Building<br><br><b><u>BRICKWORK</u></b><br><br><b><u>Sizes in descriptions:</u></b><br><br><u>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</u><br><br><b><u>Pointing:</u></b><br><br><u>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</u><br><br><b><u>FOUNDATIONS</u></b><br><br><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar. Stretcher bond, 85mm gauge. Slight steel recessed mortar pointing and jointing. Joints to be solid and vertical joints to be in line to plinth level</u> |          |      |        |
| 4/1/1   | 110mm brick walls<br>AA : 0      AB : 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | m2       | 35   |        |
| 4/1/2   | 220mm brick walls<br>AA : 0      AB : 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m2       | 110  |        |
|         | <b><u>BRICKWORK</u></b><br><br><b><u>SUPERSTRUCTURE</u></b><br><br><b><u>Brickwork of NFP 14MPa bricks in class II mortar:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| 4/1/3   | 110mm brick walls (Provisional)<br>AA : 46      AB : 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | m2       | 194  |        |
| 4/1/4   | 220mm brick walls (Provisional)<br>AA : 0      AB : 493                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m2       | 493  |        |
| 4/1/5   | 270mm brick walls<br>AA : 11      AB : 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | m2       | 11   |        |
|         | <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 4<br/>MASONRY<br/>Bill No. 1<br/>Masonry</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |        |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | R    |        |

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| Brought Forward                                          |                                                                                                                                              |    | R   |  |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----|-----|--|
| <b><u>BRICKWORK SUNDRIES:</u></b>                        |                                                                                                                                              |    |     |  |
| <b><u>Brickwork reinforcement:</u></b>                   |                                                                                                                                              |    |     |  |
| 4/1/6                                                    | 75mm Wide reinforcement built in horizontally<br>AA : 46      AB : 296                                                                       | m  | 342 |  |
| 4/1/7                                                    | 150mm Wide reinforcement built in horizontally<br>AA : 24      AB : 616                                                                      | m  | 640 |  |
| <b><u>Joint forming material in movement joints:</u></b> |                                                                                                                                              |    |     |  |
| 4/1/8                                                    | 10mm Expansion joints with Jointex polyethylene expansion joint filler vertically between brick and concrete surfaces<br>AA : 0      AB : 50 | m2 | 50  |  |
| <b><u>Prestressed fabricated lintels:</u></b>            |                                                                                                                                              |    |     |  |
| 4/1/9                                                    | 110 x 75mm Lintels in lengths not exceeding 3m<br>AA : 9      AB : 75                                                                        | m  | 84  |  |
| 4/1/10                                                   | 150 x 75mm Lintels in lengths not exceeding 3m<br>AA : 0      AB : 36                                                                        | m  | 36  |  |
| 4/1/11                                                   | 150 x 75mm Lintels in lengths exceeding 3m and not exceeding 4.5m<br>AA : 0      AB : 9                                                      | m  | 9   |  |
| 4/1/12                                                   | 150 x 75mm Lintels in lengths exceeding 4.5m and not exceeding 6m<br>AA : 0      AB : 24                                                     | m  | 24  |  |
| 4/1/13                                                   | 150 x 75mm Lintels in lengths exceeding 6m and not exceeding 7.5m<br>AA : 0      AB : 36                                                     | m  | 36  |  |
| Carried to Final Summary                                 |                                                                                                                                              |    | R   |  |
| Section No. 4<br>MASONRY<br>Bill No. 1<br>Masonry        |                                                                                                                                              |    |     |  |

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|        | Brought Forward                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      | R |  |
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|        | <p><b><u>The costs of making, storing and testing of concrete test cubes as required under "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 engineer. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the engineer. (Test cubes are measured separately)</u></b></p> |      |      |   |  |
| 5/1/6  | Making and testing 150 x 150 x 150mm concrete strength test cube. (Provisional)<br>AA : 1.0 AB : 2.0                                                                                                                                                                                                                                                                                                                                                        | Sets | 3.0  |   |  |
|        | <p><b><u>MOVEMENT JOINTS ETC</u></b></p> <p><b><u>Expansion joints with 10mm softboard between vertical surfaces:</u></b></p>                                                                                                                                                                                                                                                                                                                               |      |      |   |  |
| 5/1/7  | 10mm Joints saw cut joints in top of surface bed<br>AA : 0 AB : 77                                                                                                                                                                                                                                                                                                                                                                                          | m    | 77   |   |  |
|        | <p><b><u>25MPa/19mm concrete</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |   |  |
| 5/1/8  | 110mm Concrete wall for strong room<br>AA : 0 AB : 48                                                                                                                                                                                                                                                                                                                                                                                                       | m2   | 48   |   |  |
|        | <p><b><u>REINFORCEMENT</u></b></p> <p><b><u>Fabric reinforcement:</u></b></p>                                                                                                                                                                                                                                                                                                                                                                               |      |      |   |  |
| 5/1/9  | 100mm thick mesh reinforced surface bed mesh 395 (cover to top 30mm) 205 micron green UAB waterproof membranes lay and seal at all joints                                                                                                                                                                                                                                                                                                                   | m2   | 742  |   |  |
|        | <p><b><u>High-tensile steel bars in the following:</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                              |      |      |   |  |
| 5/1/10 | 10mm Diameter bars<br>AA : 0.00 AB : 0.60                                                                                                                                                                                                                                                                                                                                                                                                                   | t    | 0.60 |   |  |
|        | <p><b><u>CONCRETE SUNDRIES</u></b></p> <p><b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b></p>                                                                                                                                                                                                                                                                                                                                    |      |      |   |  |
| 5/1/11 | Surface beds, slabs, etc<br>AA : 0 AB : 742                                                                                                                                                                                                                                                                                                                                                                                                                 | m2   | 742  |   |  |
| 5/1/12 | Allow for concrete access ramp for all entrances<br>AA : 4 AB : 4                                                                                                                                                                                                                                                                                                                                                                                           | No   | 8    |   |  |
|        | <p><b>Carried to Final Summary</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |   |  |
|        | <p>Section No. 5<br/>CONCRETE, FORMWORK AND REINFORCEMENT<br/>Bill No. 1<br/>Concrete, Formwork and Reinforcement</p>                                                                                                                                                                                                                                                                                                                                       |      |      |   |  |

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| Item No |                                                                                                                                                                                 | Quantity | Rate | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 7</u></b>                                                                                                                                                        |          |      |        |
|         | <b><u>ROOF COVERINGS ETC.</u></b>                                                                                                                                               |          |      |        |
|         | <u>QUANTITY SPLIT</u>                                                                                                                                                           |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                                                                                 |          |      |        |
|         | A five years guarantee shall be issued for site workmanship and water tightness                                                                                                 |          |      |        |
|         | <b><u>Pitched roof with gable or bullnose ends with profiled metal sheeting and accessories</u></b>                                                                             |          |      |        |
| 7/1/1   | 4,7m x 1,2m Polycarbonate IBR sheet per bay on roof, roof covering to steel trusses at approximately 300mm centre (Provisional)<br>AA : 0 AB : 626                              | m2       | 626  |        |
| 7/1/2   | HDG Steel trusses for 15m x 23m x 3,75m high structure with 0,5 Chromadek IBR C1S roof sheeting (Provisional)<br>AA : 0 AB : 208                                                | m        | 208  |        |
| 7/1/3   | HDG Steel trusses for 10m x 10m x 3,75m high structure with 0,5 Chromadek IBR C1S roof sheeting (Provisional)<br>AA : 0 AB : 100                                                | m        | 100  |        |
| 7/1/4   | 8m x 7m x 3,0m/3,75m Lean-to structure along the western 23m workshop side only at approximately 3,5m centres to pitch not exceeding 5 degrees (Provisional)<br>AA : 0 AB : 100 | m        | 100  |        |
|         | <b><u>IBR 686 profile Polycarb clear roof sheeting covering to new timber construction at approximately 300mm centre including eave gutters and downpipes:</u></b>              |          |      |        |
|         | Pitched roof with gable ends with profiled sheeting and accessories: Timber roof trusses shall be treated                                                                       |          |      |        |
| 7/1/5   | Polycarb clear sheeting pitched IBR covering (Provisional)<br>AA : 34 AB : 223                                                                                                  | m2       | 257  |        |
| 7/1/6   | Moulded narrow polyurethane foam strip sealer<br>AA : 20 AB : 150                                                                                                               | m        | 170  |        |
|         | <b>Carried Forward</b>                                                                                                                                                          |          | R    |        |
|         | Section No. 7<br>ROOF COVERINGS, ETC<br>Bill No. 1<br>Roof Coverings, etc                                                                                                       |          |      |        |

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| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quantity | Rate | Amount |
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|         | <b><u>BILL No. 8</u></b><br><b><u>CARPENTRY AND JOINERY</u></b><br><u>QUANTITY SPLIT</u><br>AA = Existing Building<br>AB = New ATC Building<br><br><b><u>Fixing:</u></b><br><u>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</u><br><br><b><u>ROOFS ETC.</u></b><br><b><u>Plate nailed timber roof truss construction:</u></b><br><u>Plate nailed timber roof truss construction:</u><br><u>Trusses are at maximum 900mm centres.</u><br><u>Roof covering is IBR sheeting on purlins.</u><br><br><u>Manufacturer to supply written guarantees for trusses</u><br><br><b><u>Sawn softwood:</u></b> |          |      |        |
| 8/1/1   | Timber roof construction (Open Area & Bathrooms)<br>AA : 52      AB : 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | m2       | 52   |        |
|         | <b><u>Sundries:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |        |
| 8/1/2   | Two coats creosote on sawn timbers<br>AA : 10      AB : 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m2       | 20   |        |
|         | <b><u>FACIAS, BARGE BOARDS, ETC:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |        |
| 8/1/3   | 12 x 225 mm Fibre cement barge board drilled and brass screwed and including steel jointing strips between lengths including paint<br>AA : 0      AB : 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m        | 150  |        |
|         | <b><u>DOORS, ETC</u></b><br><b><u>FLUSH DOORS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
|         | <p style="text-align: right;"><b>Carried Forward</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | R    |        |
|         | Section No. 8<br>CARPENTRY AND JOINERY<br>Bill No. 1<br>Carpentry and Joinery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |        |

| Brought Forward                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                 |    | R  |
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| <b><u>Semi-solid panel door with hardwood concealed edge strip fitted with lock block to one edge clearly marked and finished both sides with hardwood veneer suitable for varnishing:</u></b>                                                                                                                                                                                                                                           |                                                                                                                                                                                                                 |    |    |
| 8/1/4                                                                                                                                                                                                                                                                                                                                                                                                                                    | 40mm hollow core flush single doors, 813mm x 2032mm with 3,2mm standard hardboard covering on both sides                                                                                                        | No | 10 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | AA : 2 AB : 8                                                                                                                                                                                                   |    |    |
| 8/1/5                                                                                                                                                                                                                                                                                                                                                                                                                                    | 40mm hollow core flush double doors, 813mm x 2032mm with 3,2mm standard hardboard covering on both sides                                                                                                        | No | 1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | AA : 0 AB : 1                                                                                                                                                                                                   |    |    |
| 8/1/6                                                                                                                                                                                                                                                                                                                                                                                                                                    | Paraplegic timber door 1000mm x 2032mm high                                                                                                                                                                     | No | 2  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | AA : 1 AB : 1                                                                                                                                                                                                   |    |    |
| <b><u>Wrought meranti doors</u></b>                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                 |    |    |
| 8/1/7                                                                                                                                                                                                                                                                                                                                                                                                                                    | Wrought Meranti, 44mm framed batten doors, 813mm x 2032mm, with 44 x 107mm top rail and stiles, 22 x 107mm middle ledge and braces and 22 x 219mm bottom rail filled in with 107mm V-jointed one side boarding. | No | 2  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | AA : 2 AB : 0                                                                                                                                                                                                   |    |    |
| <b><u>JOINERY FITTINGS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                 |    |    |
| When using the following system of measuring cupboard fittings a detailed specification must either be incorporated on the detail drawings of the cupboards or included here                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                 |    |    |
| <b><u>General</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                 |    |    |
| The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc |                                                                                                                                                                                                                 |    |    |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                 |    | R  |
| Section No. 8<br>CARPENTRY AND JOINERY<br>Bill No. 1<br>Carpentry and Joinery                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                 |    |    |

**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**

**Bills of Quantities**

|        | <b>Brought Forward</b>                                                                                                                                                  |    |    | <b>R</b> |  |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----------|--|
|        | <b><u>Kitchen cupboards etc</u></b>                                                                                                                                     |    |    |          |  |
| 8/1/8  | Wall cupboard type 4000 x 580 x 450mm high with top, sides, bottom, division, shelf, back and single hinged door<br>AA : 0      AB : 2                                  | No | 2  |          |  |
| 8/1/9  | Floor cupboard type 4000 x 580 x 600mm high with top, sides, bottom, division, shelf, back and single hinged door, dividing framework and drawers<br>AA : 0      AB : 2 | No | 2  |          |  |
| 8/1/10 | Broom wall cupboard type 600 x 580 x 2000mm high with top, sides, bottom, back and single hinged door<br>AA : 0      AB : 2                                             | No | 2  |          |  |
| 8/1/11 | Wall cupboard type 4000 x 580 x 900mm high with top, sides, bottom, division, shelf, back and single hinged door<br>AA : 1      AB : 0                                  | No | 1  |          |  |
| 8/1/12 | Floor cupboard type 8000 x 580 x 880mm high with top, sides, bottom, division, shelf, back and single hinged door, dividing framework and drawers<br>AA : 1      AB : 0 | No | 1  |          |  |
|        | <b><u>Bedroom cupboards etc</u></b>                                                                                                                                     |    |    |          |  |
| 8/1/13 | Cupboard type 1000 x 2000mm high with top, sides, bottom, division, shelves, etc<br>AA : 2      AB : 0                                                                  | No | 2  |          |  |
|        | <b><u>Bathroom cupboards etc</u></b>                                                                                                                                    |    |    |          |  |
| 8/1/14 | Wooden fully furnished vanity cupboard<br>AA : 0      AB : 4                                                                                                            | No | 4  |          |  |
|        | <b><u>Fitting sundries</u></b>                                                                                                                                          |    |    |          |  |
| 8/1/15 | 32mm Thick melamine formica top (600mm depth)<br>AA : 10      AB : 10                                                                                                   | m  | 20 |          |  |
| 8/1/16 | Allow for profit and general attendance                                                                                                                                 |    |    | %        |  |
|        | <b>Carried to Final Summary</b>                                                                                                                                         |    |    | <b>R</b> |  |
|        | Section No. 8<br>CARPENTRY AND JOINERY<br>Bill No. 1<br>Carpentry and Joinery                                                                                           |    |    |          |  |

| Item No |                                                                                                                                                                                                                                                                                                                                         | Quantity | Rate | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 9</u></b>                                                                                                                                                                                                                                                                                                                |          |      |        |
|         | <b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>                                                                                                                                                                                                                                                                                  |          |      |        |
|         | <b><u>QUANTITY SPLIT</u></b>                                                                                                                                                                                                                                                                                                            |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                                                                                                                                                                                                                                         |          |      |        |
|         | <b><u>CEILINGS</u></b>                                                                                                                                                                                                                                                                                                                  |          |      |        |
|         | <b><u>Pre-painted 1200 x 600 x 12,7mm 'BPB Gypsum DonnCeil' Gyprex white vinyl fissured drop-in ceiling panels on 'Donn SQ/T38' pre-painted exposed tee suspension system including main and cross tees, necessary hangers, grids, cornice, circular cutting, light fitting openings, air conditioning diffusers openings, etc.</u></b> |          |      |        |
| 9/1/1   | Suspended ceiling 1200 x 600mm drop in tile boards & grid (Provisional)<br>AA : 0 AB : 156                                                                                                                                                                                                                                              | m2       | 156  |        |
| 9/1/2   | Suspended vertical bulkheads<br>AA : 0 AB : 50                                                                                                                                                                                                                                                                                          | m2       | 50   |        |
|         | <b><u>6,4mm Gypsum in one direction only. Fixed to 38x38mm SAP branders at 400mm centres, with H-profile joining strips.</u></b>                                                                                                                                                                                                        |          |      |        |
| 9/1/3   | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres fixed to existing rafters<br>AA : 48 AB : 0                                                                                                                                                                                                                      | m2       | 48   |        |
| 9/1/4   | Extra over ceiling for 450 x 450mm trap door of 25 x 50mm wrought softwood rebated framing with one 30 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening<br>AA : 2 AB : 0                                                                                                                       | No       | 2    |        |
|         | <b><u>Insulation:</u></b>                                                                                                                                                                                                                                                                                                               |          |      |        |
|         | <b><u>"Aerolight" Thermal insulation:</u></b>                                                                                                                                                                                                                                                                                           |          |      |        |
| 9/1/5   | 135mm Insulation closely fitted and laid on top of on ceiling between trusses, etc<br>AA : 48 AB : 156                                                                                                                                                                                                                                  | m2       | 204  |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                  |          | R    |        |
|         | Section No. 9<br>CEILINGS, PARTITIONS AND ACCESS FLOORING<br>Bill No. 1<br>Ceilings, Partitions and Access Flooring                                                                                                                                                                                                                     |          |      |        |

| Brought Forward                                                                                                     |                                                                                                                                                                                                                                                                                                                       |    | R  |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>"Rhino" gypsum plasterboard cornices, sealed with white Polyurethane sealant:</u></b>                         |                                                                                                                                                                                                                                                                                                                       |    |    |
| 9/1/6                                                                                                               | 75mm "Rhino" gypsum plasterboard cornices, sealed with white Polyurethane sealant<br>AA : 25      AB : 0                                                                                                                                                                                                              | m  | 25 |
| <b><u>PARTITIONS ETC</u></b>                                                                                        |                                                                                                                                                                                                                                                                                                                       |    |    |
| <b><u>DRY WALL</u></b>                                                                                              |                                                                                                                                                                                                                                                                                                                       |    |    |
| 9/1/7                                                                                                               | 3.2m High gypsum wall-board partition including skimming<br>AA : 0      AB : 17                                                                                                                                                                                                                                       | m  | 17 |
| <b><u>ALUMINIUM DOOR FRAMES</u></b>                                                                                 |                                                                                                                                                                                                                                                                                                                       |    |    |
| 9/1/8                                                                                                               | Frame for single door 813 x 2032mm high<br>AA : 3      AB : 0                                                                                                                                                                                                                                                         | No | 3  |
| 9/1/9                                                                                                               | 75mm Aluminium skirting<br>AA : 0      AB : 34                                                                                                                                                                                                                                                                        | m  | 34 |
| <b><u>GLASS PARTITION WALL</u></b>                                                                                  |                                                                                                                                                                                                                                                                                                                       |    |    |
| 9/1/10                                                                                                              | 3,2m High clear glass wall partition system comprising of an 83mm thick tongued, grooved acoustically decoupled track with wall connections<br>AA : 0      AB : 10                                                                                                                                                    | m  | 10 |
| <b><u>EXTRA OVER DOORS</u></b>                                                                                      |                                                                                                                                                                                                                                                                                                                       |    |    |
| 9/1/11                                                                                                              | Extra over partition for 40mm semi-solid flush door 813 x 2032mm high with veneer on both sides and hardwood edge strips to vertical edges hung to and including standard pressed steel door frame with one pair of 100mm steel hinges including lockset and additional studding, trimming, etc<br>AA : 0      AB : 5 | No | 5  |
| <b>Carried to Final Summary</b>                                                                                     |                                                                                                                                                                                                                                                                                                                       |    | R  |
| Section No. 9<br>CEILINGS, PARTITIONS AND ACCESS FLOORING<br>Bill No. 1<br>Ceilings, Partitions and Access Flooring |                                                                                                                                                                                                                                                                                                                       |    |    |

THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE  
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| Item No |                                                                                                                                                                                                                                                                                                              | Quantity | Rate | Amount |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 10</u></b>                                                                                                                                                                                                                                                                                    |          |      |        |
|         | <b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b>                                                                                                                                                                                                                                                             |          |      |        |
|         | <u>QUANTITY SPLIT</u>                                                                                                                                                                                                                                                                                        |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                                                                                                                                                                                                              |          |      |        |
|         | <b><u>Note: Application and curing to be strictly to manufacturers specification.</u></b>                                                                                                                                                                                                                    |          |      |        |
|         | <b><u>SCREEDS</u></b>                                                                                                                                                                                                                                                                                        |          |      |        |
|         | <b><u>Screeds on concrete</u></b>                                                                                                                                                                                                                                                                            |          |      |        |
|         | <u>Self-leveling screed to existing floors:</u>                                                                                                                                                                                                                                                              |          |      |        |
| 10/1/1  | 10mm Thick on floors and landings<br>AA : 0 AB : 742                                                                                                                                                                                                                                                         | m2       | 742  |        |
|         | <b><u>GRANOLITHIC FLOORING</u></b>                                                                                                                                                                                                                                                                           |          |      |        |
|         | <b><u>40mm Granolithic floor finish</u></b>                                                                                                                                                                                                                                                                  |          |      |        |
| 10/1/2  | On external floor<br>AA : 0 AB : 106                                                                                                                                                                                                                                                                         | m2       | 106  |        |
| 10/1/3  | On internal floor<br>AA : 0 AB : 490                                                                                                                                                                                                                                                                         | m2       | 490  |        |
|         | <b><u>EPOXY FLOORING TO CONCRETE</u></b>                                                                                                                                                                                                                                                                     |          |      |        |
|         | <b><u>Apply one coat flow prime epoxy primer and two coats topcoat including slip resistant dressing:</u></b>                                                                                                                                                                                                |          |      |        |
| 10/1/4  | On floors (courtyard/atrium)<br>AA : 32 AB : 106                                                                                                                                                                                                                                                             | m2       | 138  |        |
|         | <b><u>FLOOR TILING</u></b>                                                                                                                                                                                                                                                                                   |          |      |        |
|         | <b><u>350 x 350mm Ceramic floor tiles (PC amount of R100/m<sup>2</sup>) non slip with 3mm joints complete and laid with tile adhesive as recommended by tile manufacturer on existing screed to suit required level. Finish all joints with approved waterproof grout. SARAO approve selected tiles.</u></b> |          |      |        |
| 10/1/5  | On internal floors and landings<br>AA : 90 AB : 146                                                                                                                                                                                                                                                          | m2       | 236  |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                       |          |      |        |
|         | Section No. 10<br>FLOOR COVERINGS, WALL LININGS, ETC<br>Bill No. 1<br>Floor Coverings, Wall Linings, etc                                                                                                                                                                                                     |          |      |        |
|         |                                                                                                                                                                                                                                                                                                              |          | R    |        |

## Bills of Quantities

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| Item No |                                                                                                                                                                                                                            | Quantity | Rate | Amount |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 11</u></b>                                                                                                                                                                                                  |          |      |        |
|         | <b><u>IRONMONGERY</u></b>                                                                                                                                                                                                  |          |      |        |
|         | <u>QUANTITY SPLIT</u>                                                                                                                                                                                                      |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                                                                                                                            |          |      |        |
|         | <b><u>Fixing</u></b>                                                                                                                                                                                                       |          |      |        |
|         | Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs in brickwork or concrete                                                                                                 |          |      |        |
|         | <b><u>LOCKS</u></b>                                                                                                                                                                                                        |          |      |        |
|         | <b><u>'DCLSA' or other equal and approved</u></b>                                                                                                                                                                          |          |      |        |
| 11/1/1  | 75mm Four lever upright mortice lockset with stainless steel furniture<br>AA : 4 AB : 17                                                                                                                                   | No       | 21   |        |
|         | <b><u>HANDLES</u></b>                                                                                                                                                                                                      |          |      |        |
|         | <b><u>'DCLSA' or other equal and approved</u></b>                                                                                                                                                                          |          |      |        |
| 11/1/2  | Stainless steel hat and coat hook with rubber buffer<br>AA : 4 AB : 17                                                                                                                                                     | No       | 21   |        |
| 11/1/3  | Door stop with anodised silver finish<br>AA : 4 AB : 17                                                                                                                                                                    | No       | 21   |        |
|         | <b><u>BATHROOM FITTINGS</u></b>                                                                                                                                                                                            |          |      |        |
| 11/1/4  | 800ml Stainless steel soap holder dispenser - Liquid Soap Box<br>AA : 5 AB : 7                                                                                                                                             | No       | 12   |        |
| 11/1/5  | 776mm x 776mm High 3mm thick silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork<br>AA : 4 AB : 5 | No       | 9    |        |
| 11/1/6  | 40mm x 400mm Stainless steel safety grab bar rail, Safety oblique bar rails as appropriate for the disabled persons' bathroom<br>AA : 1 AB : 1                                                                             | No       | 2    |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                     |          | R    |        |
|         | Section No. 11<br>IRONMONGERY<br>Bill No. 1<br>Ironmongery                                                                                                                                                                 |          |      |        |

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|                                                            | <b>Brought Forward</b>                                                                                                                                  |    |    | R |  |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|--|
| 11/1/7                                                     | 750mm Stainless steel straight grab rail<br>AA : 1      AB : 1                                                                                          | No | 2  |   |  |
| 11/1/8                                                     | Lockable stainless steel toilet roll holder (2 roll holder) plugged<br>AA : 5      AB : 8                                                               | No | 13 |   |  |
| 11/1/9                                                     | 900 x 1850mm shower door, enclosures with standard articulated shower head, with mixer unit, utility hooks at 1 600mm from floor.<br>AA : 4      AB : 0 | No | 4  |   |  |
| <b>Carried to Final Summary</b>                            |                                                                                                                                                         |    |    | R |  |
| Section No. 11<br>IRONMONGERY<br>Bill No. 1<br>Ironmongery |                                                                                                                                                         |    |    |   |  |

| Item No |                                                                                                                       | Quantity | Rate | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 12</u></b>                                                                                             |          |      |        |
|         | <b><u>METALWORK</u></b>                                                                                               |          |      |        |
|         | <b><u>QUANTITY SPLIT</u></b>                                                                                          |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                       |          |      |        |
|         | <b><u>Descriptions:</u></b>                                                                                           |          |      |        |
|         | Descriptions of bolts shall be deemed to include nuts and washers                                                     |          |      |        |
|         | Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described            |          |      |        |
|         | <b><u>GALVANIZED PRESSED STEEL FRAME, DOORS, ECT</u></b>                                                              |          |      |        |
| 12/1/1  | 813 x 2032mm High single door frame<br>AA : 4 AB : 8                                                                  | No       | 12   |        |
| 12/1/2  | 1751 x 2120mm High double door frame<br>AA : 0 AB : 1                                                                 | No       | 1    |        |
| 12/1/3  | 1000 x 2032mm High paraplegic door frame<br>AA : 1 AB : 1                                                             | No       | 2    |        |
| 12/1/4  | 770 x 1950mm High security gate for single doors<br>AA : 3 AB : 0                                                     | No       | 3    |        |
| 12/1/5  | 104mm Thick 830 x 1932mm high single strongroom door with frame<br>AA : 0 AB : 1                                      | No       | 1    |        |
| 12/1/6  | 813mm x 2032mm High galvanized pressed steel 1,6mm double rebated frames suitable for one brick wall<br>AA : 0 AB : 1 | No       | 1    |        |
| 12/1/7  | Galvanized steel wall shelves - store rooms<br>Item                                                                   | 1.00     |      |        |
|         | <b><u>GUTTERS AND RAINWATER PIPES</u></b>                                                                             |          |      |        |
|         | <b><u>Welded sheet steel gutters</u></b>                                                                              |          |      |        |
| 12/1/8  | 75mm x 100mm High galvanized steel square gutter<br>AA : 28 AB : 87                                                   | m        | 115  |        |
|         | <b>Carried Forward</b>                                                                                                |          | R    |        |
|         | Section No. 12<br>METALWORK<br>Bill No. 1<br>Metalwork                                                                |          |      |        |

| Brought Forward                                                                                                                                                                                                                                                                                                        |                                                                                                                                                        |    | R  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| 12/1/9                                                                                                                                                                                                                                                                                                                 | 100 x 75 mm Galvanized steel Square downpipe<br>AA : 3 AB : 32                                                                                         | m  | 35 |
| <b><u>ROLLER SHUTTER DOORS</u></b>                                                                                                                                                                                                                                                                                     |                                                                                                                                                        |    |    |
| 12/1/10                                                                                                                                                                                                                                                                                                                | Galvanized chain operated roller shutter door for opening size 3 x 3 m high, including two padbolts and "Solid 630" cylinder padlock.<br>AA : 0 AB : 1 | No | 1  |
| <b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b>                                                                                                                                                                                                                                                                            |                                                                                                                                                        |    |    |
| <u>All aluminium windows shall be sealed all round both sides and protected against damage, deterioration or discolouration by taping with removable tape or covering with temporary casings or motor oil and removing same on completion. Supply of aluminium windows shall include glass and fixing in position.</u> |                                                                                                                                                        |    |    |
| <b><u>AAMSA approved aluminium windows brown anodized</u></b>                                                                                                                                                                                                                                                          |                                                                                                                                                        |    |    |
| 12/1/11                                                                                                                                                                                                                                                                                                                | 600 x 600mm High glazed aluminum windows<br>AA : 0 AB : 21                                                                                             | No | 21 |
| 12/1/12                                                                                                                                                                                                                                                                                                                | 1200 x 1000mm High glazed aluminum windows<br>AA : 0 AB : 3                                                                                            | No | 3  |
| <b><u>AAMSA approved aluminium windows brown anodized with burglar bars</u></b>                                                                                                                                                                                                                                        |                                                                                                                                                        |    |    |
| 12/1/13                                                                                                                                                                                                                                                                                                                | 900 x 1000mm high glazed aluminum windows<br>AA : 4 AB : 0                                                                                             | No | 4  |
| <b><u>AAMSA approved aluminium doors brown anodized</u></b>                                                                                                                                                                                                                                                            |                                                                                                                                                        |    |    |
| 12/1/14                                                                                                                                                                                                                                                                                                                | 1720mm x 2 260mm High external double doors size<br>AA : 0 AB : 2                                                                                      | No | 2  |
| <b><u>SUNDRIES</u></b>                                                                                                                                                                                                                                                                                                 |                                                                                                                                                        |    |    |
| 12/1/15                                                                                                                                                                                                                                                                                                                | Anti mosquito nets fixed to all windows<br>AA : 10 AB : 0                                                                                              | No | 10 |
| Carried to Final Summary                                                                                                                                                                                                                                                                                               |                                                                                                                                                        |    | R  |
| Section No. 12<br>METALWORK<br>Bill No. 1<br>Metalwork                                                                                                                                                                                                                                                                 |                                                                                                                                                        |    |    |

| Item No |                                                                                                                                                                                                      | Quantity | Rate | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 13</u></b>                                                                                                                                                                            |          |      |        |
|         | <b><u>WALL FINISHES</u></b>                                                                                                                                                                          |          |      |        |
|         | <u>QUANTITY SPLIT</u>                                                                                                                                                                                |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                                                                                                      |          |      |        |
|         | <b><u>INTERNAL PLASTER</u></b>                                                                                                                                                                       |          |      |        |
|         | <b><u>1 coat 1:5 cement plaster woodfloated and sponged to smooth finish and 1 coat plasterskim on concrete wall</u></b>                                                                             |          |      |        |
| 13/1/1  | On vertical surfaces (Strong room)<br>AA : 0 AB : 84                                                                                                                                                 | m2       | 84   |        |
|         | <b><u>1 coat 1:5 cement plaster woodfloated and sponged to smooth finish and 1 coat plasterskim on brick wall</u></b>                                                                                |          |      |        |
| 13/1/2  | On internal walls<br>AA : 101 AB : 659                                                                                                                                                               | m2       | 760  |        |
| 13/1/3  | On window sills<br>AA : 9 AB : 0                                                                                                                                                                     | m2       | 9    |        |
|         | <b><u>FACEBRICK</u></b>                                                                                                                                                                              |          |      |        |
|         | <b><u>Fair face to brickwork in horizontal stretcher bond pointed with flush horizontal and vertical joints</u></b>                                                                                  |          |      |        |
| 13/1/4  | Extra over facebrick work on external walls<br>AA : 0 AB : 449                                                                                                                                       | m2       | 449  |        |
|         | <b><u>WALL TILING</u></b>                                                                                                                                                                            |          |      |        |
|         | <b><u>Allow the prime cost amount of R100.00 (One hundred rand and nil cents) net per square metre excluding VAT for supply only of ceramic wall tiles (fixing of tiles elsewhere measured).</u></b> |          |      |        |
| 13/1/5  | On internal plastered walls<br>AA : 47 AB : 102                                                                                                                                                      | m2       | 149  |        |
| 13/1/6  | On plastered walls narrow widths not exceeding 300mm<br>AA : 8 AB : 20                                                                                                                               | m2       | 28   |        |
|         | <b>Carried Forward</b>                                                                                                                                                                               |          | R    |        |
|         | Section No. 13<br>WALL FINISHES<br>Bill No. 1<br>Wall Finishes                                                                                                                                       |          |      |        |

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THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE  
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| Item No |                                                                                                                                                                                                                                             | Quantity | Rate | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 14</u></b>                                                                                                                                                                                                                   |          |      |        |
|         | <b><u>PLUMBING AND DRAINAGE</u></b>                                                                                                                                                                                                         |          |      |        |
|         | <b><u>QUANTITY SPLIT</u></b>                                                                                                                                                                                                                |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                                                                                                                                             |          |      |        |
|         | <b><u>KITCHEN FITTINGS</u></b>                                                                                                                                                                                                              |          |      |        |
| 14/1/1  | Single stainless steel "drop in" sink with draining plate, complete with plugs, fittings, waste piping and traps. Sink mixer: CP, complete with CP ball valves and flexible connection pipes for hot and cold supply.<br>AA : 0      AB : 2 | No       | 2    |        |
|         | <b><u>SANITARY FITTINGS</u></b>                                                                                                                                                                                                             |          |      |        |
|         | <b><u>White Vitreous china</u></b>                                                                                                                                                                                                          |          |      |        |
| 14/1/2  | Semi-close coupled 90° outlet WC suite comprising pan with "P" or "S" trap, 9 litre cistern complete with lid, fittings, flush pipe elbow, ball valve, and heavy duty double flap 'white' plastic seat<br>AA : 4      AB : 6                | No       | 10   |        |
| 14/1/3  | Wash hand basin size 510 x 400mm including ball valves, piping and traps, ect<br>AA : 4      AB : 5                                                                                                                                         | No       | 9    |        |
| 14/1/4  | Wall-mounted 680mm high washout ceramic urinal with top Inlet, complete with spreader, flusher, pipes, CP domical grating, brackets, CP bottle trap<br>AA : 1      AB : 1                                                                   | No       | 2    |        |
|         | <b><u>TAPS, VALVES, ETC</u></b>                                                                                                                                                                                                             |          |      |        |
|         | <b><u>"Chromium Plated"</u></b>                                                                                                                                                                                                             |          |      |        |
| 14/1/5  | 15mm Pillar tap with star type handle<br>AA : 2      AB : 8                                                                                                                                                                                 | No       | 10   |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                      |          | R    |        |
|         | Section No. 14<br>PLUMBING AND DRAINAGE<br>Bill No. 1<br>Plumbing and Drainage                                                                                                                                                              |          |      |        |

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**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**  
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| Item No |                                                                                                                                                                                                                                                       | Quantity | Rate       | Amount     |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|------------|
|         | <b><u>BILL No. 15</u></b>                                                                                                                                                                                                                             |          |            |            |
|         | <b><u>ELECTRICAL INSTALLATION</u></b>                                                                                                                                                                                                                 |          |            |            |
|         | <b><u>Contractor to supply Certificate of Compliance for all electrical work performed from a registered electrician</u></b>                                                                                                                          |          |            |            |
|         | <b><u>New Installation:</u></b>                                                                                                                                                                                                                       |          |            |            |
| 15/1/1  | Provide the sum of R250,000.00 (Two hundred and fifty thousand rand and nil cents) for electrical and light fittings installation supplied and installed complete by a selected sub-contractor, to be used as instructed by the SARAO Representative. |          |            |            |
|         | Item                                                                                                                                                                                                                                                  | 1.00     | 250,000.00 | 250,000.00 |
| 15/1/2  | Allow for profit and general attendance                                                                                                                                                                                                               |          | %          |            |
|         | <b><u>Gate Motors and Accessories:</u></b>                                                                                                                                                                                                            |          |            |            |
| 15/1/3  | Provide the sum of R3 500.00 (Three thousand five hundred rand and nil cents) for the supply of 4m wide swing gate motor and accessories to be used as instructed by SKA SA                                                                           |          |            |            |
|         | Item                                                                                                                                                                                                                                                  | 1.00     | 3,500.00   | 3,500.00   |
| 15/1/4  | Allow for profit and general attendance                                                                                                                                                                                                               |          | %          |            |
|         | <b><u>SUNDRIES</u></b>                                                                                                                                                                                                                                |          |            |            |
|         | <b><u>Testing and commissioning:</u></b>                                                                                                                                                                                                              |          |            |            |
| 15/1/5  | Allow for testing, balancing and commissioning the complete electrical installation and liason with SARAO site representative                                                                                                                         |          |            |            |
|         | Item                                                                                                                                                                                                                                                  | 1.00     |            |            |
| 15/1/6  | Contractor to supply Certificate of Compliance for all electrical work performed from a registered electrician                                                                                                                                        |          |            |            |
|         | Item                                                                                                                                                                                                                                                  | 1.00     |            |            |
|         | <b>Carried to Final Summary</b>                                                                                                                                                                                                                       |          | R          |            |
|         | Section No. 15                                                                                                                                                                                                                                        |          |            |            |
|         | ELECTRICAL INSTALLATION                                                                                                                                                                                                                               |          |            |            |
|         | Bill No. 1                                                                                                                                                                                                                                            |          |            |            |
|         | Electrical Installation                                                                                                                                                                                                                               |          |            |            |

## Bills of Quantities

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## Bills of Quantities

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**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**  
**Bills of Quantities**

| Item No |                                                                                                                             | Quantity | Rate | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 17</u></b>                                                                                                   |          |      |        |
|         | <b><u>PAINTWORK</u></b>                                                                                                     |          |      |        |
|         | <u>QUANTITY SPLIT</u>                                                                                                       |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                             |          |      |        |
|         | <b><u>PAINTWORK ETC. TO NEW WORK</u></b>                                                                                    |          |      |        |
|         | PAINT SPECIFICATIONS                                                                                                        |          |      |        |
|         | All painting shall be done in accordance with manufacturers specifications unless otherwise described.                      |          |      |        |
|         | Paints prescribed are to be applied to prepared areas, preparation and undercoats according to manufactures' specifications |          |      |        |
|         | <b><u>ON FLOATED PLASTER</u></b>                                                                                            |          |      |        |
|         | <b><u>One coat alkali resistant primer and two coats "Wash 'n Wear" acrylic emulsion paint:</u></b>                         |          |      |        |
| 17/1/1  | On internal brick walls (Provisional)<br>AA : 80 AB : 84                                                                    | m2       | 164  |        |
| 17/1/2  | On external brick walls (Provisional)<br>AA : 9 AB : 0                                                                      | m2       | 9    |        |
|         | <b><u>ON FLOATED CONCRETE</u></b>                                                                                           |          |      |        |
| 17/1/3  | On internal concrete walls<br>AA : 0 AB : 84                                                                                | m2       | 84   |        |
|         | <b><u>ON FIBRE-CEMENT</u></b>                                                                                               |          |      |        |
|         | <b><u>One coat primer and two coats acrylic paint:</u></b>                                                                  |          |      |        |
| 17/1/4  | 3.2m High gypsum wall-board partition<br>AA : 0 AB : 70                                                                     | m2       | 70   |        |
| 17/1/5  | On ceilings and cornices<br>AA : 218 AB : 0                                                                                 | m2       | 218  |        |
| 17/1/6  | On fascias and barge boards<br>AA : 0 AB : 13                                                                               | m2       | 13   |        |
|         | <b>Carried Forward</b>                                                                                                      |          | R    |        |
|         | Section No. 17<br>PAINTWORK<br>Bill No. 1<br>Paintwork                                                                      |          |      |        |

| Brought Forward                                                                                                                                                                                                                                                                                                        |                                                |    | R   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----|-----|
| <b><u>ON METAL</u></b>                                                                                                                                                                                                                                                                                                 |                                                |    |     |
| <b><u>Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Aquasolve Degreaser GR1', rinse and apply one coat 'Galvogrip Metal Primer', apply one coat 'Merit Universal Undercoat' and two coats 'Velvaglo Polyurethane Enamel' paint on galvanised steel or aluminium:</u></b> |                                                |    |     |
| 17/1/7                                                                                                                                                                                                                                                                                                                 | On door frames<br>AA : 7 AB : 0                | m2 | 7   |
| 17/1/8                                                                                                                                                                                                                                                                                                                 | On window frames<br>AA : 6 AB : 0              | m2 | 6   |
| 17/1/9                                                                                                                                                                                                                                                                                                                 | Aluminium tile edging strip<br>AA : 0 AB : 204 | m  | 204 |
| <b><u>ON WOOD</u></b>                                                                                                                                                                                                                                                                                                  |                                                |    |     |
| <b><u>Stop, fill, sand down and prepare wood surfaces and apply one coat oil wood primer, apply three coats high gloss clear varnish</u></b>                                                                                                                                                                           |                                                |    |     |
| 17/1/10                                                                                                                                                                                                                                                                                                                | On doors<br>AA : 19 AB : 0                     | m2 | 19  |
| <b><u>PREPARATORY WORK TO EXISTING WORK</u></b>                                                                                                                                                                                                                                                                        |                                                |    |     |
| <b><u>Previously painted plastered surfaces:</u></b>                                                                                                                                                                                                                                                                   |                                                |    |     |
| <u>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</u>                                                                        |                                                |    |     |
| <b><u>Previously painted metal surfaces:</u></b>                                                                                                                                                                                                                                                                       |                                                |    |     |
| <u>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</u>                                                                                                                                                                                 |                                                |    |     |
| <b><u>Previously painted wood surfaces:</u></b>                                                                                                                                                                                                                                                                        |                                                |    |     |
| <u>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</u>                                                                                                                      |                                                |    |     |
| <b><u>ON FLOATED PLASTER</u></b>                                                                                                                                                                                                                                                                                       |                                                |    |     |
| Carried Forward                                                                                                                                                                                                                                                                                                        |                                                |    | R   |
| Section No. 17<br>PAINTWORK<br>Bill No. 1<br>Paintwork                                                                                                                                                                                                                                                                 |                                                |    |     |

|         | Brought Forward                                                                                                                                                                                                                                                                                                                                                |    |     | R |  |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|---|--|
|         | <b><u>Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Mendall 90' or 'Polyfilla Exterior' filler sanded smooth apply one coat alkali resistant primer and two coats "Wash 'n Wear" acrylic emulsion paint on existing enamel paint based surfaces:</u></b> |    |     |   |  |
| 17/1/11 | On internal walls<br>AA : 500 AB : 0                                                                                                                                                                                                                                                                                                                           | m2 | 500 |   |  |
| 17/1/12 | On external walls<br>AA : 328 AB : 0                                                                                                                                                                                                                                                                                                                           | m2 | 328 |   |  |
|         | <b><u>ON FIBRE-CEMENT</u></b><br><b><u>One coat primer and two coats acrylic paint:</u></b>                                                                                                                                                                                                                                                                    |    |     |   |  |
| 17/1/13 | On ceilings and cornices<br>AA : 48 AB : 0                                                                                                                                                                                                                                                                                                                     | m2 | 48  |   |  |
|         | <b><u>ON METAL</u></b><br><b><u>Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Aquasolve Degreaser GR1', rinse and apply one coat 'Galvogrip Metal Primer', apply one coat 'Merit Universal Undercoat' and two coats 'Velvagio Polyurethane Enamel' paint on galvanised steel or aluminium:</u></b>               |    |     |   |  |
| 17/1/14 | On door frames<br>AA : 16 AB : 0                                                                                                                                                                                                                                                                                                                               | m2 | 16  |   |  |
| 17/1/15 | On window frames<br>AA : 12 AB : 0                                                                                                                                                                                                                                                                                                                             | m2 | 12  |   |  |
|         | <b><u>ON WOOD</u></b><br><b><u>Stop, fill, sand down and prepare wood surfaces and apply one coat 'Oil Wood Primer', apply three coats 'Woodcare Clear Plus' high gloss clear varnish</u></b>                                                                                                                                                                  |    |     |   |  |
| 17/1/16 | On doors<br>AA : 58 AB : 0                                                                                                                                                                                                                                                                                                                                     | m2 | 58  |   |  |
| 17/1/17 | On all wardrobes<br>AA : 24 AB : 0                                                                                                                                                                                                                                                                                                                             | m2 | 24  |   |  |
|         | <b>Carried to Final Summary</b>                                                                                                                                                                                                                                                                                                                                |    |     |   |  |
|         | Section No. 17<br>PAINTWORK<br>Bill No. 1<br>Paintwork                                                                                                                                                                                                                                                                                                         |    |     |   |  |

| Item No |                                                                                                                                                                                                                                                  | Quantity | Rate | Amount |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>BILL No. 18</u></b>                                                                                                                                                                                                                        |          |      |        |
|         | <b><u>EXTERNAL WORKS</u></b>                                                                                                                                                                                                                     |          |      |        |
|         | <u>QUANTITY SPLIT</u>                                                                                                                                                                                                                            |          |      |        |
|         | AA = Existing Building<br>AB = New ATC Building                                                                                                                                                                                                  |          |      |        |
|         | <b><u>SITEWORK</u></b>                                                                                                                                                                                                                           |          |      |        |
| 18/1/1  | Allow for 100mm thick concrete plinth for existing 9100 x 6600mm parkhome (For Parkhomes)<br>AA : 6 AB : 0                                                                                                                                       | m3       | 6    |        |
| 18/1/2  | Allow for 1620mm diameter base concrete plinth for 2500l vertical water tank<br>AA : 0 AB : 12                                                                                                                                                   | m3       | 12   |        |
|         | <b><u>SECURITY FENCING</u></b>                                                                                                                                                                                                                   |          |      |        |
|         | <b><u>Construct security fence complete as per specification:</u></b>                                                                                                                                                                            |          |      |        |
| 18/1/3  | 1800mm High fence comprising of 8 stranded wires above ground level, including excavations, galvanised steel posts and stays at 10m centres and steel droppers at 2m centres, concrete, netting wire (Jackal proofing), etc.,<br>AA : 0 AB : 111 | m        | 111  |        |
|         | <b><u>Extra over security mesh fence for:</u></b>                                                                                                                                                                                                |          |      |        |
| 18/1/4  | 4m Wide x 3m high sliding gate (Gate provided by SARAO)<br>AA : 0 AB : 1                                                                                                                                                                         | No       | 1    |        |
| 18/1/5  | 1m Wide x 2m high pedestrian gate (Gate provided by SARAO)<br>AA : 0 AB : 1                                                                                                                                                                      | No       | 1    |        |
|         | <b><u>MANHOLE CONSTRUCTION</u></b>                                                                                                                                                                                                               |          |      |        |
| 18/1/6  | Precast manhole not exceeding 1m deep, including precast concrete cover slab and cover, concrete base and all excavations, backfill, etc. complete<br>AA : 0 AB : 2                                                                              | No       | 2    |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                           |          | R    |        |
|         | Section No. 18<br>EXTERNAL WORKS<br>Bill No. 1<br>External Works                                                                                                                                                                                 |          |      |        |

**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**

**Bills of Quantities**

|         | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                  |    |    | <b>R</b> |  |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----------|--|
| 18/1/7  | Precast manhole exceeding 1m but not exceeding 2m deep, including precast concrete cover slab and cover, concrete base and all excavations, backfill, etc. complete<br>AA : 0      AB : 2                                                                                                                                                                               | No | 2  |          |  |
|         | <b><u>SOIL DRAINAGE (PROVISIONAL)</u></b>                                                                                                                                                                                                                                                                                                                               |    |    |          |  |
| 18/1/8  | 110mm sewer line<br>AA : 0      AB : 10                                                                                                                                                                                                                                                                                                                                 | m  | 10 |          |  |
|         | <b><u>"Geberit" HDPE drainpipes and fittings including electroweld sleeve couplings complying with SABS 791</u></b>                                                                                                                                                                                                                                                     |    |    |          |  |
| 18/1/9  | 110mm Pipes laying in ground including excavating trench not exceeding 1m deep, 150mm sandbed under around and above pipe compacted to 95% Mod AASHTO density and backfilling to ground level with material arising from the excavations compacted to 95% Mod AASHTO density, including carting away surplus excavated material<br>AA : 0      AB : 25                  | m  | 25 |          |  |
| 18/1/10 | 110mm Pipes laying in ground including excavating trench exceeding 1m and not exceeding 2m deep, 150mm sandbed under around and above pipe compacted to 95% Mod AASHTO density and backfilling to ground level with material arising from the excavations compacted to 95% Mod AASHTO density, including carting away surplus excavated material<br>AA : 0      AB : 20 | m  | 20 |          |  |
| 18/1/11 | 110mm Pipes laying in ground including excavating trench exceeding 2m and not exceeding 3m deep, 150mm sandbed under around and above pipe compacted to 95% Mod AASHTO density and backfilling to ground level with material arising from the excavations compacted to 95% Mod AASHTO density, including carting away surplus excavated material<br>AA : 0      AB : 5  | m  | 5  |          |  |
|         | <b><u>Extra over "Geberit" HDPE pipes for butt-welded and/or electrowelded sleeve joints and fittings</u></b>                                                                                                                                                                                                                                                           |    |    |          |  |
| 18/1/12 | 110mm Bend<br>AA : 0      AB : 6                                                                                                                                                                                                                                                                                                                                        | No | 6  |          |  |
| 18/1/13 | 110mm Junction<br>AA : 0      AB : 2                                                                                                                                                                                                                                                                                                                                    | No | 2  |          |  |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                  |    |    | <b>R</b> |  |
|         | Section No. 18<br>EXTERNAL WORKS<br>Bill No. 1<br>External Works                                                                                                                                                                                                                                                                                                        |    |    |          |  |

**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**

**Bills of Quantities**

|         | <b>Brought Forward</b>                                                                                                                                              |      |      | R |  |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---|--|
| 18/1/14 | 110mm Adaptor (HDPE to Cast iron)<br>AA : 0      AB : 3                                                                                                             | No   | 3    |   |  |
|         | <b><u>Cast iron rodding eye</u></b>                                                                                                                                 |      |      |   |  |
| 18/1/15 | 110mm Cast iron 'ABC' cleaning eye cover fixed to top of 110mm HDPE pipe set flush with concrete apron around<br>AA : 0      AB : 3                                 | No   | 3    |   |  |
| 18/1/16 | Testing drainage pipe system<br>AA : 0.00      AB : 1.00                                                                                                            | Item | 1.00 |   |  |
|         | <b><u>WATER SUPPLY (PROVISIONAL)</u></b>                                                                                                                            |      |      |   |  |
|         | <b><u>Class 12.5 PE-100 pipes</u></b>                                                                                                                               |      |      |   |  |
| 18/1/17 | 32mm Pipes laying in ground including excavating trench not exceeding 1m deep<br>AA : 0      AB : 10                                                                | m    | 10   |   |  |
|         | <b><u>Extra over Class 12.5 PE-100 pipes for "Plasson" fittings</u></b>                                                                                             |      |      |   |  |
| 18/1/18 | 32mm HDPE/ copper reducing adaptor<br>AA : 0      AB : 1                                                                                                            | No   | 1    |   |  |
| 18/1/19 | 32mm Bend<br>AA : 0      AB : 6                                                                                                                                     | No   | 6    |   |  |
| 18/1/20 | 32mm Juction<br>AA : 0      AB : 2                                                                                                                                  | No   | 2    |   |  |
| 18/1/21 | 32mm Reducer<br>AA : 0      AB : 1                                                                                                                                  | No   | 1    |   |  |
|         | <b><u>STORMWATER DRAINAGE (PROVISIONAL)</u></b>                                                                                                                     |      |      |   |  |
| 18/1/22 | 300 x 300mm Precast concrete storm water U-Channel to divert the storm water flow through the property to the municipal storm water system.<br>AA : 0      AB : 171 | m    | 171  |   |  |
|         | <b><u>WASTE WATER DISPOSAL</u></b>                                                                                                                                  |      |      |   |  |
| 18/1/23 | 2500L Septic Tank suitable for a waste water storage system for 12 people to be embedded to the correct depth<br>AA : 0      AB : 2                                 | No   | 2    |   |  |
|         | <b>Carried Forward</b>                                                                                                                                              |      |      | R |  |
|         | Section No. 18<br>EXTERNAL WORKS<br>Bill No. 1<br>External Works                                                                                                    |      |      |   |  |

**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**

**Bills of Quantities**

|         | <b>Brought Forward</b>                                                                                                                                                                                                                    |      |      | R         |           |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
| 18/1/24 | Grey water system                                                                                                                                                                                                                         | Item | 1.00 |           |           |
| 18/1/25 | Allow for profit and general attendance                                                                                                                                                                                                   |      |      | %         |           |
|         | <b><u>Sundries</u></b>                                                                                                                                                                                                                    |      |      |           |           |
| 18/1/26 | Testing water supply system<br>AA : 0.00 AB : 1.00                                                                                                                                                                                        | Item | 1.00 |           |           |
| 18/1/27 | Cut into side of precast concrete manhole for 160mm diameter uPVC pipe including sealing all round and make good on completion<br>AA : 0 AB : 2                                                                                           | No   | 2    |           |           |
| 18/1/28 | Pressure Pump Jet 24L Tank 0.75Kw<br>AA : 0 AB : 2                                                                                                                                                                                        | No   | 2    |           |           |
| 18/1/29 | 2500L Vertical water tank including fittings, ect<br>AA : 0 AB : 2                                                                                                                                                                        | No   | 2    |           |           |
| 18/1/30 | Allow for profit and general attendance                                                                                                                                                                                                   |      |      | %         |           |
|         | <b><u>MAIN POWER SUPPLY</u></b>                                                                                                                                                                                                           |      |      |           |           |
|         | <b><u>External Electrical Installations (3 Phase Power)</u></b>                                                                                                                                                                           |      |      |           |           |
| 18/1/31 | Provide the sum of R10,000.00 (Ten thousand rand and nil cents) for any external electrical remedial works to obtain CoC - Contractor to supply Certificate of Compliance for all electrical work performed from a registered electrician | Item | 1.00 | 10,000.00 | 10,000.00 |
| 18/1/32 | Allow for profit and general attendance                                                                                                                                                                                                   |      |      | %         |           |
|         | <b>Carried to Final Summary</b>                                                                                                                                                                                                           |      |      | R         |           |
|         | Section No. 18<br>EXTERNAL WORKS<br>Bill No. 1<br>External Works                                                                                                                                                                          |      |      |           |           |

## Bills of Quantities

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**THE RENOVATION & NEW BUILD OF SARAO ARTISAN TRAINING CENTRE**

**Bills of Quantities**

| Section<br>No | <b><u>FINAL SUMMARY</u></b>                                                       | Page<br>No |   | Amount |
|---------------|-----------------------------------------------------------------------------------|------------|---|--------|
| 1             | PRELIMINARIES AND GENERAL                                                         | 3          |   |        |
| 2             | ALTERATIONS                                                                       | 5          |   |        |
| 3             | EARTHWORKS                                                                        | 7          |   |        |
| 4             | MASONRY                                                                           | 9          |   |        |
| 5             | CONCRETE, FORMWORK AND REINFORCEMENT                                              | 11         |   |        |
| 6             | WATERPROOFING                                                                     | 12         |   |        |
| 7             | ROOF COVERINGS, ETC                                                               | 14         |   |        |
| 8             | CARPENTRY AND JOINERY                                                             | 17         |   |        |
| 9             | CEILINGS, PARTITIONS AND ACCESS FLOORING                                          | 19         |   |        |
| 10            | FLOOR COVERINGS, WALL LININGS, ETC                                                | 21         |   |        |
| 11            | IRONMONGERY                                                                       | 23         |   |        |
| 12            | METALWORK                                                                         | 25         |   |        |
| 13            | WALL FINISHES                                                                     | 27         |   |        |
| 14            | PLUMBING AND DRAINAGE                                                             | 29         |   |        |
| 15            | ELECTRICAL INSTALLATION                                                           | 30         |   |        |
| 16            | MECHANICAL WORK                                                                   | 32         |   |        |
| 17            | PAINTWORK                                                                         | 35         |   |        |
| 18            | EXTERNAL WORKS                                                                    | 39         |   |        |
| 19            | PROVISIONAL AMOUNTS                                                               | 40         |   |        |
|               | Sub Total (Excluding VAT)                                                         |            | R |        |
|               | ALLOW FOR PROFESSIONAL FEES FOR DETAIL<br>DESIGNS                                 | Item       |   |        |
|               | ALLOW FOR PROFESSIONAL FEES FOR<br>VERIFICATION/MONITORING DURING<br>CONSTRUCTION | Item       |   |        |
|               | <b>Carried Forward</b>                                                            |            | R |        |

**THE RENOVATION & NEW BUILD OF SARAQ ARTISAN TRAINING CENTRE**  
**Bills of Quantities**

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