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| | <u>SECTION 1</u> | | | |
| | <u>BILL No. 1</u> | | | |
| | <u>PRELIMINARIES</u> | | | |
| 1 | Site Establishment F:..... V:..... T:..... | | | |
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| 2 | Supervision F:..... V:..... T:..... | | | |
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| 3 | Guarantees and insurances F:..... V:..... T:..... | | | |
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| 5 | Safety and security F:..... V:..... T:..... | | | |
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| 6 | The Site: Existing premises occupied F:..... V:..... T:..... | | | |
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| 7 | Programme of the works F:..... V:..... T:..... | | | |
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| 8 | Progress & Technical Meetings F:..... V:..... T:..... | | | |
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| 9 | Samples of materials F:..... V:..... T:..... | | | |
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| 10 | Enclosure of the works F:..... V:..... T:..... | | | |
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| 11 | Main Notice Board F:..... V:..... T:..... | | | |
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| 12 | Temporary Services: Water F:..... V:..... T:..... | | | |
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| 13 | Temporary Services: Electricity F:..... V:..... T:..... | | | |
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| 14 | Temporary Services: Telecommunications F:..... V:..... T:..... | | | |
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| 15 | Temporary Services: Ablutions F:..... V:..... T:..... | | | |
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| | <u>SPECIFIC PRELIMINARIES</u> | | | |
| 16 | <p>Site instructions</p> <p>Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 17 | <p>Warranties for material and workmanship</p> <p>Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor</p> <p>F:.....V:.....T:.....</p> | Item | | |
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| 18 | <p><u>LOCAL LABOUR</u></p> <p>It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate labour not be available within the locality, other may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The Contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilization of local labour in the construction process. In this regard, the Contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The Contractor shall, in general, maximize the involvement of the local community.</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 19 | <p>Occupational Health and Safety Act No. 85 of 1993</p> <p>Bidders are to allow for costs in providing and implementing a "Construction Phase Safety, Health and Environmental Plan". Bidders are further reminded that it is their responsibility to amend their safety plan if the assessed risk of the work changes in the slightest manner.</p> <p>F..... V..... T.....</p> | Item | | |
| 20 | SUB - TOTAL: FIXED ITEMS | Item | | |
| 21 | SUB - TOTAL: VALUE - RELATED ITEMS | Item | | |
| 22 | SUB - TOTAL: TIME - RELATED ITEMS | Item | | |
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| | <p><u>SECTION 2</u></p> <p><u>BILL No. 1 : ALTERATIONS</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Existing Furniture, Equipment, etc</u></p> <p>The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described in the items to follow: The Contractor must give the Principal Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done</p> <p><u>Damage to existing finishes</u></p> <p>The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent.</p> <p>Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account</p> | | | |
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| | <p><u>Responsibility for site</u></p> <p>The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Principal Agent</p> | | | |
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| | <p>Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>"Taking out and removing doors, windows, etc" implies that the door, etc is to be carefully taken down together with the fame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing</p> <p>"Forming openings" for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing</p> <p>"Making good" implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades</p> <p>The Contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p> | | | |
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| | <p>The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing</p> <p>"Breaking down and removing" walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for plaster or other finishings as described</p> <p>Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained</p> <p>"Building up openings" implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described.</p> <p><u>Removal of asbestos material</u></p> <p>All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.</p> | | | |
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| | <p><u>The following shall apply in respect of asbestos removal</u></p> <p>The removal of asbestos shall be carries out by a certified entity, registered in accordance with the Occupational Health and Safety Act. 1993 and the Asbestos Regulations 2001</p> <p>Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose</p> <p>Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material</p> <p>Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occuring, the Contractor will be held responsible contractually and may further be prosecuted ciminally</p> <p>The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained</p> | | | |
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| | <u>TEMPORARY BARRIERS, SCREENS, ETC</u> | | | |
| | <u>Temporary barriers, screens, etc including removal and allow for re-use</u> | | | |
| 1 | SANS approved weld mesh type temporary barrier fencing 1,8m high with shade cloth fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing | m | 350 | |
| 2 | Double gate size 3 x 1.8m high | No | 1 | |
| | <u>REMOVAL OF EXISTING WORK</u> | | | |
| | <u>Taking out and removing timber doors, etc</u> | | | |
| 3 | Timber single door 813 x 2032mm high | No | 6 | |
| | <u>Taking out and removing glass and mirrors, etc</u> | | | |
| 4 | Glass from steel windows including cleaning out rebates and preparing for new glass (new glass elsewhere) | m2 | 30 | |
| | <u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc completely</u> | | | |
| 5 | Corrugated metal roof sheeting including timber roof purlins, underlay etc. | m2 | 220 | |
| 6 | Fascia boards and fixings | m | 146 | |
| 7 | Barge boards and fixings | m | 72 | |
| 8 | Rainwater gutters and fixings | m | 146 | |
| 9 | Rainwater downpipes and fixings | m | 48 | |
| | <u>Prepare existing surfaces for new finish</u> | | | |
| 10 | Clean down, etc. existing emulsion painted internal plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish | m2 | 720 | |
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| | <u>STRUCTURAL REPAIRS</u> | | | |
| | <u>Repairs to structural cracks, etc</u> | | | |
| 14 | Rake out existing minor structural crack in blockwork, remove all debris/loose material including four times shot fixing 32 x 1,6mm thick strap x 500mm long at 500mm centres and plaster over (plaster measured elsewhere). | m | 86 | |
| 15 | Rake out existing major structural crack in blockwork, remove all debris/loose material including embedding steel rods, cutting or drilling slots (60mm deep) in brickwork at 250mm centres to embed 8mm mild steel bars fixed between mortar joints with injected epoxy resin | m | 33 | |
| | <u>SERVICE</u> | | | |
| | <u>Steel Windows</u> | | | |
| 16 | Service window including lubricating ironmongery and leave in good workable condition | No | 30 | |
| | <u>TEMPORARY ACCOMMODATION</u> | | | |
| | <u>Pricing</u> | | | |
| | NOTE: Shop drawings / Specifications will be required for approval by the Principal Agent BEFORE temporary structures are build. | | | |
| | Suitable rental structures can also be provided. | | | |
| | <u>Supply and Install Pre-fabricated Modular Parkhome Units, as per Parkhome Modular Units' Specifications or equal approved, comprising of:</u> | | | |
| | <ul style="list-style-type: none"> • <u>Walls made of 40mm thick polystyrene panels clad with 0.4mm thick pre-painted Aluzinc sheeting on both sides</u> • <u>1.1 x 1.2m high (7no. in total) Casement type Anodised aluminium window frames with 4mm clear glass with one top hung opener; Windows are to be secured with aluminium profile burglar proofing</u> | | | |
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| | <ul style="list-style-type: none"> • <u>0.9 x 1 .8m high (1no. in total) External door manufactured from the same materials as the walls and fitted with 3 lever mortice lock, weather boards, door stoppers and retaining hooks</u> • <u>Vinyl Sheeting on floors</u> • <u>The chassis to be manufactured from cold rolled lipped channel welded or bolted together into a rigid ladder frame. Joists are to be manufactured from steel lipped channel. All steel to be hot dip galvanised.</u> • <u>The roof is to be a dual pitched roof constructed from the same insulated panels used for the walls on single wide units and units up to 7m wide (using a king truss system)</u> • <u>Gutters and Downpipes</u> • <u>Exterior Chromadeck Skirting</u> • <u>2no. Chalkboards each size 2.4 x 1.2m and 1no. Pinning Board size 1.8 x 1.2m</u> • <u>1no. Teacher Cupboard</u> • <u>Steps at Entrances</u> • <u>Electrical Installation and Connection (Surface mounted DB, Earth Leakage, 4no. SGL Flourescent lights - 1.2m, 2no. SGL Plugs - 16AMP, 1no. Light Switch</u> • <u>All Internal electrical wiring to be designed for a 220 volt supply, in accordance with SABS 0142:1987</u> | | | |
| 17 | Pre-fabricated Classroom on Steel Chassis size 7 x 7m. <u>Relocation of Pre-fabricated Parkhome Units</u> | No | 8 | |
| 18 | Re-location of pre-fabricated parkhome units within 200km radius of site, each size 7 x 7m including levelling the site where parkhome units will be placed. | No | 8 | |
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| | <p><u>SECTION 3</u></p> <p><u>BILL No. 1 : ROOF COVERINGS</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Flashings</u></p> <p>Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side</p> <p><u>Quality Assurance</u></p> <p>The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System</p> | | | |
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| | <p><u>Guarantee</u></p> <p>Z275 Steel or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials and a five year written guarantee on workmanship and water-tightness after final inspection of the roofs, by the manufacturer.</p> <p><u>Safety</u></p> <p>The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity</p> <p><u>Handling and Storage</u></p> <p>The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction</p> | | | |
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| | <p><u>Inspection Prior to Installation or Erection</u></p> <p>Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:</p> <p>a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted</p> <p>b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances</p> <p>c. The corners of the roof are square and the wall framework is perpendicular or as specified</p> <p>d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework</p> <p>e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square</p> <p>f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided</p> <p>g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding</p> <p><u>Protrusion through Sheeted Surfaces</u></p> <p>Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation</p> | | | |
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| | <p><u>Cleaning of Roofs, etc</u></p> <p>All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc</p> <p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p><u>0.53mm Zinc alum broad flute IBR finish chromadek pre - coated roof sheeting (charcoal) laid at 18 degrees pitch on 75 x 50mm purlins at +/- 1200mm centres max. on Sisalation RSA 420 underlay under purlins on straining tape on timber trusses laid as per manufacturers specification.</u></p> | | | |
| 1 | Roof covering with pitch not exceeding 25 degrees | m2 | 220 | |
| | <p><u>ROOF COVERING AND ACCESSORIES</u></p> <p><u>0.53mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:</u></p> | | | |
| 2 | Ridge capping 550mm girth, screwed through sheet to purlins | m | 48 | |
| 3 | Standard narrow and broad flute closers. | m | 96 | |
| | <p><u>ROOF AND WALL INSULATION</u></p> <p><u>"Sisalation 420" or equal approved heavy industrial grade aluminium foil based insulation</u></p> | | | |
| 4 | Insulation laid taut over purlins (at approximately 450mm centres) and fixed concurrent with roof covering including galvanised steel straining wires | m2 | 220 | |
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| <p><u>BILL No. 2 : CARPENTRY & JOINERY</u></p> | | | |
| <p><u>MODEL PREAMBLES</u></p> | | | |
| <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>ROOFS ETC</u></p> | | | |
| <p><u>MONOPLANAR PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES</u></p> | | | |
| <p>All trusses to be fabricated in a factory by a truss fabricator who holds a current Certificate of Competence awarded by the Institute for Timber Construction</p> | | | |
| <p>TR1 & TR2 Certificates are to be issued for each Block before occupation may take place</p> | | | |
| <p><u>PREFABRICATED ROOF TRUSSES HAVING A PITCH NOT EXCEEDING 25 DEGREES</u></p> | | | |
| <p>NOTE: All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES</p> | | | |
| <p>Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and TR1 and TR2 Certificates</p> | | | |
| <p><u>TIMBER</u></p> | | | |
| <p>Timber for trusses to be South African softwood structural timber and shall be at least of grade 4 and in accordance with SABS Specification No.'s 563 or 1245 or laminated timber in accordance with SABS 1460</p> | | | |
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|---|-------------------|-----------|--------|------------|------------|-----------|----------|----|-----|-----------|----|-----|-----------|----|-----|--|--|--|
| <p><u>METAL CONNECTOR PLATES</u></p> <p>Metal truss connector plates shall be made from galvanised steel of at least 1mm nominal thickness, with a minimum yield strength of 250MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be 0,275Kg/m2 commercial class hot dipped galvanising</p> <p>The connector plates shall have been tested by the CSIR and be a size capable of transmitting the forces between the members of a truss without exceeding the design values given in the CSIR report</p> <p><u>BOLTS</u></p> <p>Bolts shall be to BS 4190 or SANS 135 with appropriate washers. (See below)</p> <p><u>WASHERS</u></p> <p>Square or round washers of the following minimum dimensions shall be used with all bolts:</p> <table style="margin-left: 40px; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">WASHER DIMENSIONS</th> </tr> <tr> <th style="text-align: left;">Bolts Size</th> <th style="text-align: center;">Width (mm)</th> <th style="text-align: center;">Thickness</th> </tr> </thead> <tbody> <tr> <td>up to M8</td> <td style="text-align: center;">25</td> <td style="text-align: center;">2,5</td> </tr> <tr> <td>up to M12</td> <td style="text-align: center;">36</td> <td style="text-align: center;">4,0</td> </tr> <tr> <td>up to M20</td> <td style="text-align: center;">60</td> <td style="text-align: center;">5,0</td> </tr> </tbody> </table> <p><u>SHEAR PLATES, TOOTH CONNECTORS AND SPLIT RINGS</u></p> <p>These shall be as specified in BS 1579 and installed in accordance with the CSIR Publication : HOUT 468, "The Design, Manufacture and Erection of Timber Trusses".</p> <p><u>NAILS</u></p> <p>These shall be in accordance with SANS 820 : 1974</p> | WASHER DIMENSIONS | | | Bolts Size | Width (mm) | Thickness | up to M8 | 25 | 2,5 | up to M12 | 36 | 4,0 | up to M20 | 60 | 5,0 | | | |
| WASHER DIMENSIONS | | | | | | | | | | | | | | | | | | |
| Bolts Size | Width (mm) | Thickness | | | | | | | | | | | | | | | | |
| up to M8 | 25 | 2,5 | | | | | | | | | | | | | | | | |
| up to M12 | 36 | 4,0 | | | | | | | | | | | | | | | | |
| up to M20 | 60 | 5,0 | | | | | | | | | | | | | | | | |
| Carried to Collection | | | R | | | | | | | | | | | | | | | |
| <p>Section 3 New Works to Existing Structures Bill No. 2 Carpentry and Joinery</p> | | | | | | | | | | | | | | | | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>TRUSS CONSTRUCTION</u></p> <p>The trusses shall be constructed to ensure the correct profile, overhangs and cambers</p> <p>All joints are to be close fitting butt joints made by precision pressing of the metal connector plates into each side of the joint</p> <p><u>TRUSS DESIGN</u></p> <p>All trusses shall be designed by a registered Professional Engineer employed by the Contractor in accordance with the SANS Code of Practice for the Design of Timber Structures SANS 0163 and the Code of Practice for General Procedures and Loadings SANS 0160</p> <p><u>TRUSS SPACING</u></p> <p>The truss centres shall be less than or equal to that described in the Bills for each respective truss type</p> <p><u>DRAWINGS</u></p> <p><i>Prints shall be provided to the consulting engineer/ architect for approval. These drawings shall be signed by a Professional Engineer</i></p> <p>The following minimum information shall be supplied:</p> <ul style="list-style-type: none"> * Details of the roof system with the positions of all trusses and beams clearly indicated * Bracing details * All truss details, including valley trusses where applicable, with the following clearly detailed:- <ul style="list-style-type: none"> - All member sizes and grades - Connector plate sizes for all truss joints. Code numbers are deemed sufficient * All connection and hold down details between trusses, girders, beams and supports * The type of roof covering, ceiling and any other loads taken into account in the design | | | |
| | Carried to Collection | | R | |
| | Section 3 New Works to Existing Structures Bill No. 2 Carpentry and Joinery | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p>The dimensions in the descriptions of trusses are nominal and verification measurements are to be obtained from site before design or fabrication commences, and must be designed in accordance with the environmental conditions of the area</p> <p><u>GENERAL</u></p> <p>The following schedule of prices includes all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact length and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses, checking the completed truss for quality, as well as loading, transporting to the site and offloading</p> <p>The trusses must be suitable stored and protected on site as directed by the Secretary or his Representative</p> <p><u>ERECTION</u></p> <p>The trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the Manual "The Erection and Bracing of Timber Roof Trusses" published by the Institute for Timber Construction and the Council for Scientific and Industrial Research of as detailed by the designer of the SANS Code of Practice: "The Design, Manufacture and Erection of Timber Roof Trusses"</p> <p><u>TRUSS LOADING</u></p> <p>The trusses shall be designed for:</p> <ul style="list-style-type: none"> * Roof Cover: 0,8mm Metal roof sheeting * Max Purlin centres: 900mm * Ceilings: Fibre-cement ceilings * Overhang: Min 600mm | | | |
| | Carried to Collection | | | R |
| | <p>Section 3 New Works to Existing Structures Bill No. 2 Carpentry and Joinery</p> | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>TRUSSES</u></p> <p>a. All the roof trusses to be at average 1 000mm centres and constructed for approximable 25deg pitch unless otherwise stated</p> <p>b. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof covering, purlins and fibre cement or plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions</p> <p>c. Unless otherwise described all rafter feet are to extend 600mm beyond the length of the tie beam, with ends twice splay cut</p> <p>d. Upon completion of the contract the Registered Professional Engineer must issue to the Principal Agent a certificate to the effect that the roof has been erected in accordance with his approved design, under his supervision and that the entire roof is structurally stable. The lump sum price of the roof trusses and purlins or battens (bottom purlin or tilting fillet to be wrought) shall include for the design and supervision by a Registered / Professional Engineer and for all necessary runners, overhangs wrought all round and trimmed and splay cut as required, braces, hoisting and fixing, etc.,but shall exclude fixing brackets and hurricane clips, wall plates, fascia, barge boards, roof coverings, purlins, etc. which are all separately measured</p> <p>e. The tenderer's attention is drawn to the fact that the description of the trusses only represents the overall size (fascia to fascia) and not the required design</p> <p>f. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR</p> <p>g. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary bracing</p> | | | |
| Carried to Collection | | | R |
| <p>Section 3 New Works to Existing Structures Bill No. 2 Carpentry and Joinery</p> | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>PLATE NAILED PITCHED TIMBER ROOF CONSTRUCTION</u> | | | |
| | <u>SAWN SOFTWOOD</u> | | | |
| 1 | 76 x 50mm Purlins | m | 96 | |
| | <u>EAVES, VERGES, ETC</u> | | | |
| | <u>Pressed fibre-cement:</u> | | | |
| 2 | 12 x 225mm EVERITE NUTEC medium density fibre-cement fascia board (product no (041-202) or equal approved. Aluminium H-Profile fascia joiners (product no 685-1950. Drill and for fix with Hot dipped galvanised screws and washers. | m | 146 | |
| 3 | Extra on last for splay cut end. | No | 12 | |
| 4 | 80 x 200mm EVERITE NUTEC fibre cement socketless Barge boards (Product no 521-731) or equal approved. Aluminium H-profile barge board joiners(product No 685-187). drill for and fix with Hot dipped galvanise screws and washers. 76 x 50mm trimmer batten fixed underside of purlin ends for barge board fixing. | m | 66 | |
| 5 | Extra on last for splay cut end. | No | 12 | |
| | <u>DOORS ETC</u> | | | |
| | <u>SANS Approved meranti:</u> | | | |
| 6 | 44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1). | No | 6 | |
| | <u>SKIRTINGS</u> | | | |
| | <u>Wrought meranti:</u> | | | |
| 7 | 19 x 76mm Skirting fixed to walls including 19mm quadrant bead planted on. | m | 180 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures Bill No. 2 Carpentry and Joinery | | | |

Section 3
New Works to Existing Structures
Bill No. 2
Carpentry and Joinery

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Section 3
New Works to Existing Structures
Bill No. 2
Carpentry and Joinery

R

| Item No | <u>BILL No. 3 : CEILINGS, PARTITIONS AND ACCESS FLOORING</u> | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions:</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p><u>Trade Names</u></p> <p>Where trade names are specified equal materials approved by the Principal Agent may be used</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>4mm "Everite Nutec" or equal approved fibre-cement boards with 40 x 10mm hardwood cover strips</u></p> | | | |
| 1 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres | m2 | 360 | |
| 2 | Extra over ceiling for forming trap door size 635 x 635mm in clear formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including trimmers. | No | 6 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures Bill No. 3 Ceilings, Partitions and Access Flooring | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>Cornice</u> | | | |
| 3 | Everite Nucornice Nu-Cornice Plain 75 or equal approved, overall size 55 x 55mm high, fixed to wall and ceiling using Nucornice water-based adhesive, leaving 2mm vertical joints between sections. All vertical joints to be sealed with Nucornice adhesive prior to painting, all in accordance with the manufacturer`s recommendations. | m | 180 | |
| | <u>100mm thick Aerolite or equal approved non-combustible light weight ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of brandering between roof timbers, all in accordance with manufacturer`s recommendations.</u> | | | |
| | • <u>R-value: 2,50m² K/W</u> | | | |
| | • <u>Thermal conductivity: 0,04 W/m²/K</u> | | | |
| 4 | 100mm Insulation laid between roof trusses and on top of brandering, etc. | m2 | 360 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures Bill No. 3 Ceilings, Partitions and Access Flooring | | | |

Section 3
New Works to Existing Structures
Bill No. 3
Ceilings, Partitions and Access Flooring

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Section 3
New Works to Existing Structures
Bill No. 3
Ceilings, Partitions and Access Flooring

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>BILL No. 4 : FLOOR COVERINGS, WALL LININGS, ETC</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Cleaning:</u></p> <p>Rates for floor covering shall include for proper cleaning on completion.</p> <p><u>VINYL FLOOR COVERINGS</u></p> <p><u>3mm thick x 300mm x 300mm wide Floorflex semi-flexible vinyl floor tiles laid in Marley No.60 Plus acrylic adhesive, or equal approved, spread with trowel having 1.5mm x 1.5mm x 1.5mm triangular notches at 4.00mm centres as per Architectural and Manufacturers specifications:</u></p> | | | |
| 1 | On floors | m2 | 360 | |
| | <p><u>POLISH, SEALERS, ETC</u></p> <p><u>Scrub with a diluted neutral detergent complying with SABS 825 and thoroughly rinse, Apply three coats of a water based floor dressing complying to SABS 1042 on:</u></p> | | | |
| 2 | Vinyl tile flooring | m2 | 360 | |
| | Carried Forward to Summary of Section No. 3 | | | R |
| | <p>Section 3 New Works to Existing Structures Bill No. 4 Floor Coverings, Wall Linings, Etc.</p> | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL No. 5 : IRONMONGERY</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Keys/Locks</u> | | | |
| | Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys | | | |
| | <u>Trade Names</u> | | | |
| | Where trade names are specified other ironmongery approved by the Principal Agent may be used | | | |
| | <u>Fixing</u> | | | |
| | Fixing of ironmongery is deemed to be fixed to timber unless otherwise described | | | |
| | <u>IRONMONGERY</u> | | | |
| | <u>Dorma or equal approved Hinges:</u> | | | |
| 1 | 102 x75 x 3mm Two Ball Bearing Butt Hinge (Stainless Steel) - Code DBB-SS-009 | Pairs | 6.0 | |
| | <u>Union or equal approved Locks:</u> | | | |
| 2 | 3 Lever Mortice Deadlock (Stainless Steel) Code - 2157-78SS | No | 6 | |
| | <u>Union or equal approved Handles:</u> | | | |
| 3 | 200mm Pull handle BTB Code - AL5515-200BBAS | Pairs | 6.0 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures Bill No. 5 Ironmongery | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Union or equal approved Door Stop</u> | | | |
| 4 | Door stop - Code - AL8730AS | No | 6 | |
| | <u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u> | | | |
| 5 | Chalkboard size 4800 x 1140mm high complete with aluminium chalkrail, "Vitrex System 100" vitreous enamelled magnetic green or equal approved. | No | 6 | |
| 6 | Pinning board 4800 x 1200mm High overall of 9mm "Van Dyk" or equal approved pinning board glued to 3mm masonite back plugged and screwed to wall and framed with 70 x 22mm rebated wrought Saligna frame with one vertical middle rail. | No | 6 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures Bill No. 5 Ironmongery | | | |

Section 3

New Works to Existing Structures

Bill No. 5

Ironmongery

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Section 3

New Works to Existing Structures

Bill No. 5

Ironmongery

| Item No | | Quantity | Rate | Amount |
|---|-------------------------|----------|------|--------|
| <u>BILL No. 6 : PLASTERING</u> | | | | |
| <u>MODEL PREAMBLES</u> | | | | |
| The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. | | | | |
| <u>INTERNAL PLASTER</u> | | | | |
| <u>Cement plaster trowelled smooth:</u> | | | | |
| 1 | On walls in small areas | m2 | 43 | |
| <u>SCREEDS</u> | | | | |
| <u>1:3 Cement and sand screeds steel trowelled on concrete:</u> | | | | |
| 2 | 30mm thick on floors. | m2 | 120 | |
| Carried Forward to Summary of Section No. 3 | | | | R |
| Section 3 New Works to Existing Structures Bill No. 6 Plastering | | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL No. 7 : PLUMBING AND DRAINAGE</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. | | | |
| | <u>RAINWATER DISPOSAL</u> | | | |
| | <u>Seamless aluminium:</u> | | | |
| 1 | 125mm x 85mm domestic OGEE x 0,6mm with white concealed brackets fixed at 500mm centres. | m | 146 | |
| 2 | Extra over eaves gutter for stopped end. | No | 8 | |
| 3 | Extra over eaves gutter for outlet for 75mm diameter PVC downpipe | No | 12 | |
| 4 | 75 mm Diameter PVC downpipe fixed to wall with straps at 1500mm centres using nail plugs, with pvc downpipes riveted and silicone sealed to gutter outlets | m | 48 | |
| 5 | Extra over rainwater downpipe for bends. | No | 12 | |
| | Carried Forward to Summary of Section No. 3 | | | R |
| | Section 3 New Works to Existing Structures Bill No. 7 Plumbing and Drainage | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL No. 8 : GLAZING</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. | | | |
| | <u>GLAZING TO STEEL WITH PUTTY</u> | | | |
| | All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass. | | | |
| | <u>6.38mm PVB laminated clear safety glass secured into galvanized window with a compatible UV resistant sealant</u> | | | |
| 1 | Panes exceeding 0,1m2 and not exceeding 0,5m2 | m2 | 20 | |
| 2 | Issue of Glazing Certificate. | | Item | |
| | Carried Forward to Summary of Section No. 3 | | | R |
| | Section 3 New Works to Existing Structures Bill No. 8 Glazing | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL No. 9 : PAINTWORK</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Trade Names</u> | | | |
| | Where trade names are specified it will read "or equal approved" | | | |
| | <u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u> | | | |
| | <u>ON FLOATED PLASTER</u> | | | |
| | <u>Apply one coat DULUX Trade alkali resistant plaster prime followed by two coats of DULUX trade 100 low sheen or equal approved.</u> | | | |
| 1 | On internal walls | m2 | 720 | |
| 2 | On external walls | m2 | 516 | |
| | <u>PAINTWORK ETC TO NEW WORK</u> | | | |
| | <u>ON FIBRE-CEMENT BOARD SURFACES</u> | | | |
| | <u>Prepare, brush surface to remove all loose contaminants and apply one coat "Timesaver" or equal approved alkali resistant primer, and two coats "Plascon Polvin" or equal approved super acrylic PVA Colour: White. All joints to be taped, skimmed and rubbed to a smooth finish.</u> | | | |
| 3 | On ceilings and cornices | m2 | 360 | |
| | <u>Prepare and apply two coats pure acrylic roof paint on:</u> | | | |
| 4 | On fascias and barge boards | m2 | 73 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures Bill No. 9 Paintwork | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>ON WOOD</u> | | | |
| | <u>Prepare and brush surface to remove all loose contaminants and apply two coats "ABE Provonite" or equal approved carbolineum anti-corrosive coal tar paint</u> | | | |
| 5 | On roof timbers at eaves and verges | m2 | 200 | |
| | <u>Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats high gloss enamel paint:</u> | | | |
| 6 | On doors | m2 | 23 | |
| | <u>Three coats superior quality clear gloss varnish</u> | | | |
| 7 | Skirtings, rails, frames, etc not exceeding 300mm girth | m | 180 | |
| | <u>ON METAL</u> | | | |
| | <u>Prepare and brush surface to remove all loose contaminants and apply one coat galvanized iron primer, one universal undercoat and two coats super enamel paint</u> | | | |
| 8 | Window frames including burglar bars | m2 | 101 | |
| 9 | Door frames | m2 | 12 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures Bill No. 9 Paintwork | | | |

Section 3

New Works to Existing Structures

Bill No. 9

Paintwork

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Section 3

New Works to Existing Structures

Bill No. 9

Paintwork

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION 4</u> | | | |
| | <u>BILL No. 1 : WALKWAYS</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. | | | |
| | <u>Excavation not exceeding 2m deep</u> | | | |
| 1 | Reducing levels and depositing excavated material in prescribed stock piles on site. | m3 | 24 | |
| | <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u> | | | |
| 2 | Off site to a dumping site to be found by the Contractor. | m3 | 24 | |
| | <u>Filling supplied by the contractor under walkways</u> | | | |
| 3 | G7 Base course material compacted to 98% Mod AASHTO density | m3 | 12 | |
| 4 | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density. | m3 | 12 | |
| | <u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u> | | | |
| 5 | Under floors,etc. | m2 | 81 | |
| | <u>Prescribed density tests on filling:</u> | | | |
| 6 | In-situ dry density test. | No | 5 | |
| | Carried to Collection | | | R |
| | Section 4 Extenal Works (Provisional) Bill No. 1 Walkways | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u> | | | |
| 7 | Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved. | m2 | 81 | |
| | <u>Concrete Paving Blocks</u> | | | |
| | <u>Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u> | | | |
| 8 | Paving to walkway areas, etc laid to falls. | m2 | 81 | |
| 9 | Extra over ordinary paving for 200mm wide block-on-flat header course edging on 100mm thick mortar bed including unreinforced concrete haunching along outside edge. | m | 5 | |
| | <u>Kerbing</u> | | | |
| | <u>Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc.</u> | | | |
| 10 | Figure 8B (300 x 275 x 175mm) semi mountable kerb laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course. | m | 6 | |
| 11 | Fig. 12 kerb size 75 x 150mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course. | m | 90 | |
| 12 | Ditto but circular on plan. | m | 10 | |
| | Carried to Collection | | | R |
| | Section 4 Extenal Works (Provisional) Bill No. 1 Walkways | | | |

Section 4

Extenal Works (Provisional)

Bill No. 1

Walkways

COLLECTION

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Section 4

Extenal Works (Provisional)

Bill No. 1

Walkways

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL No. 2 : STORMWATER DRAINAGE</u> | | | |
| | <u>STORMWATER APRONS</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. | | | |
| | <u>Cast in-situ Ref 193 mesh reinforced concrete (25MPa) apron, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 1.8m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u> | | | |
| 1 | 900 x 100mm apron laid in position in ground in 1800mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating, etc | m | 50 | |
| | <u>STORMWATER CHANNELS</u> | | | |
| | <u>Cast in-situ Ref 193 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 1.8m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u> | | | |
| 2 | 900 x 100mm V' channel 50mm deep in centre laid in position in ground in 1800mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating, etc | m | 96 | |
| 3 | Extra for 700mm angle | No | 4 | |
| | Carried to Collection | | | R |
| | Section 4 Extenal Works (Provisional) Bill No. 2 Stormwater Drainage | | | |

| Item No | | Quantity | Rate | Amount |
|---|--|----------|------|--------|
| 4 | Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones | No | 3 | |
| Carried to Collection | | | | R |
| Section 4 Extenal Works (Provisional) Bill No. 2 Stormwater Drainage | | | | |

Section 4

Extenal Works (Provisional)

Bill No. 2

Stormwater Drainage

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Section 4

Extenal Works (Provisional)

Bill No. 2

Stormwater Drainage

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL No. 3 : RAINWATER TANKS AND STANDS</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. | | | |
| | <u>EARTHWORKS</u> | | | |
| | <u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep:</u> | | | |
| 1 | Trenches. | m3 | 12 | |
| | <u>Extra over trench and hole excavations in earth for excavation:</u> | | | |
| 2 | Soft rock. | m3 | 4 | |
| 3 | Hard rock. | m3 | 2 | |
| | <u>Extra over all excavations for carting away:</u> | | | |
| 4 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor. | m3 | 7 | |
| | <u>Risk of collapse of excavations:</u> | | | |
| 5 | Sides of trench and hole excavations not exceeding 1,5m deep. | m2 | 34 | |
| | <u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93%:</u> | | | |
| 6 | Backfilling to trenches, holes, etc. | m3 | 5 | |
| | <u>Earth filling supplied by the Contractor compacted to 95% MOD AASHTO:</u> | | | |
| 7 | Under floors, steps, pavings, etc. | m3 | 3 | |
| | Carried to Collection | | | R |
| | Section 4 Extenal Works (Provisional) Bill No. 3 Rainwater Tanks and Stands | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Compaction of surfaces</u> | | | |
| 8 | Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density. | m2 | 10 | |
| | <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> | | | |
| | <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | | |
| | <u>25Mpa/19mm Concrete</u> | | | |
| 9 | Strip footings. | m3 | 4 | |
| | <u>REINFORCED CONCRETE</u> | | | |
| | <u>25MPa/19mm Concrete:</u> | | | |
| 10 | Tank concrete slab. | m3 | 2 | |
| | <u>MOVEMENT JOINTS</u> | | | |
| | <u>Malthoid 3 ply or equal approved waterproofing membrane in slip joints between horizontal concrete and brick surfaces including cement mortar bed</u> | | | |
| 11 | Not exceeding 300mm wide. | m | 24 | |
| | <u>FINISHING TOP SURFACE OF CONCRETE</u> | | | |
| | <u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u> | | | |
| 12 | Surface beds, slabs, etc. | m2 | 12 | |
| | <u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u> | | | |
| | Carried to Collection | | | |
| | Section 4 Extenal Works (Provisional) Bill No. 3 Rainwater Tanks and Stands | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Rough Formwork to Sides:</u> | | | |
| 13 | Edges, risers, ends and reveals not exceeding 300mm high or wide. | m | 24 | |
| | <u>REINFORCEMENT</u> | | | |
| | <u>Allens Meshco Square Mesh Fabric reinforcement:</u> | | | |
| 14 | Type 193 fabric reinforcement in concrete surface beds, slabs, etc. | m2 | 12 | |
| | <u>MASONRY</u> | | | |
| | <u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u> | | | |
| | <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u> | | | |
| 15 | One brick walls. | m2 | 11 | |
| | <u>BRICKWORK IN SUPERSTRUCTURE</u> | | | |
| | <u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:</u> | | | |
| 16 | One brick walls. | m2 | 14 | |
| | <u>BRICKWORK AND BLOCKWORK SUNDRIES</u> | | | |
| | <u>Brickwork reinforcement:</u> | | | |
| 17 | 230mm Wide reinforcement built in horizontally. | m | 85 | |
| 18 | Ditto, but in foundations (Provisional). | m | 64 | |
| | Carried to Collection | | | R |
| | Section 4 Extenal Works (Provisional) Bill No. 3 Rainwater Tanks and Stands | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>FACE BRICKWORK</u> | | | |
| | <u>"Golden wheat travertine FBX" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2:</u> | | | |
| 19 | Extra over brickwork for face brickwork externally. | m2 | 14 | |
| | <u>PLUMBING AND DRAINAGE</u> | | | |
| | <u>TANKS ETC</u> | | | |
| | <u>Plastic water tanks etc:</u> | | | |
| 20 | 5000 Litre light duty cylindrical tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete. | No | 3 | |
| 21 | Hole top of tank for 100mm pipe. | No | 3 | |
| | Carried to Collection | | | R |
| | Section 4 Extenal Works (Provisional) Bill No. 3 Rainwater Tanks and Stands | | | |

Section 4
 Extenal Works (Provisional)
 Bill No. 3
 Rainwater Tanks and Stands

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Section 4
 Extenal Works (Provisional)
 Bill No. 3
 Rainwater Tanks and Stands

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|------------|
| | <u>SECTION 5</u> | | | |
| | <u>BILL No. 1 : PROVISIONAL SUMS</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor. | | | |
| | Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto. | | | |
| | <u>The following amounts are for work to be carried out by Selected sub-contractors in terms of the Nominated/Selected Subcontract Agreement as prepared by the Joint Building Contracts Committee (JBCC):</u> | | | |
| | <u>ELECTRICAL INSTALLATION</u> | | | |
| 1 | Provide the sum of R150 000 for Electrical Installation | Item | | 150,000.00 |
| 2 | Add: Mark-up | | % | |
| | <u>BUDGETARY ALLOWANCES</u> | | | |
| | <u>The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:</u> | | | |
| 3 | Provide the sum of R39 000.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R6 500.00 a month for the full contract duration. | Item | | 39,000.00 |
| 4 | Add: Mark-up | | % | |
| | Carried to Final Summary | | | R |
| | Section 5 Provisional sums Bill No. 1 Provisional Sums | | | |

| Section No | <u>FINAL SUMMARY</u> | Page No | Amount |
|------------|---|---------|--------|
| 1 | Preliminaries | 5 | |
| 2 | Alterations (Provisional) | 15 | |
| 3 | New Works to Existing Structures | 41 | |
| 4 | Extenal Works (Provisional) | 53 | |
| 5 | Provisional sums | 54 | |
| | SUB-TOTAL | | R |
| | <u>CONTINGENCIES</u> | | |
| | Allow ten percent (10%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required. | | R |
| | SUB-TOTAL: | | R |
| | Add Value Added Tax at the rate of 15% | | R |
| | Carried to Project Final Summary | | R |