

**BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1**

| Item No | Description | Quantity | Amount |
|---------|--|----------|--------|
| | <u>SECTION NO.1</u> | | |
| | <u>BILL NO. 1</u> | | |
| | <u>PRELIMINARIES</u> | | |
| | <u>NOTES TO PRELIMINARIES</u> | | |
| | <u>NOTE : TENDERERS ARE TO PRICE PRELIMINARIES BASED ON THE TERMS, INSTRUCTIONS AND CONDITIONS OF THE CONTRACT AND BILLS OF QUANTITIES INCLUDED HEREIN</u> | | |
| | <u>STRUCTURE OF THIS PRELIMINARIES BILL</u> | | |
| | Section A : A recital of the headings of the individual clauses of the aforementioned JBCC Series 2000 Principal Building Agreement prepared by Joint Building Contracts Committee, Edition 6.2 - March 2018 | | |
| | Section B : A recital of the headings of the individual clauses of the aforementioned Preliminaries document | | |
| | Section C : Any special clauses to meet the particular circumstances of the project | | |
| | <u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u> | | |
| 1.1.1 | Clause 1.0 - Definitions and interpretation F:..... V:..... T:..... | Item | |
| 1.1.2 | Clause 2.0 - Law, regulations and notices | | |
| 1.1.3 | Clause 3.0 - Offer and acceptance F:..... V:..... T:..... | Item | |
| 1.1.4 | Clause 4.0 - Assignment and cession F:..... V:..... T:..... | Item | |
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| 1.1.5 | Clause 5.0 - Contract documents F:..... V:..... T:..... | | Item | |
| 1.1.6 | Clause 6.0 - Employer's agents F:..... V:..... T:..... | | Item | |
| 1.1.7 | Clause 7.0 - Design responsibility F:..... V:..... T:..... | | Item | |
| | <u>Insurance and security (A8-A11)</u> | | | |
| 1.1.8 | Clause 8.0 - Works risk F:..... V:..... T:..... | | Item | |
| 1.1.9 | Clause 9.0 - Indemnities F:..... V:..... T:..... | | Item | |
| 1.1.10 | Clause 10.0 - Insurances F:..... V:..... T:..... | | Item | |
| 1.1.11 | Clause 11.0 - Security F:..... V:..... T:..... | | Item | |
| | <u>Execution (A12 - A17)</u> | | | |
| 1.1.12 | Clause 12.0 - Duties of the parties F:..... V:..... T:..... | | Item | |
| 1.1.13 | Clause 13.0 - Setting out F:..... V:..... T:..... | | Item | |
| 1.1.14 | Clause 14.0 - Nominated subcontractors F:..... V:..... T:..... | | Item | |
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| | | Brought forward | R | |
| 1.1.15 | <p>Clause 15.0 - Selected subcontractors</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.16 | <p>Clause 16.0 - Direct contractors</p> <p>Attendance on direct contractors</p> <p>In respect of direct contractors the contractor shall:</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.17 | <p>Clause 17.0 - Contract instructions</p> <p>Site instructions</p> <p>Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor</p> <p>F:..... V:..... T:.....</p> <p><u>Completion (A18 - A24)</u></p> | | Item | |
| 1.1.18 | <p>Clause 18.0 - Interim completion</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.19 | <p>Clause 19.0 - Practical completion</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.20 | <p>Clause 20.0 - Sectional completion</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.21 | <p>Clause 21.0 - Defects liability period and final completion</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.22 | <p>Clause 22.0 - Latent defects liability period</p> <p>F:..... V:..... T:.....</p> | | Item | |
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| | | Brought forward | R | |
| 1.1.23 | <p>Clause 23.0 - Revision of date for practical completion</p> <p>Substitution of materials and goods</p> <p>The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8, 23.1 & 2]</p> <p>In assessing his price and programme for the works to be completed by the given practical completion date/s (refer to Contract Data EC), the contractor shall take into account and shall allow 10 working days to be included in his construction programme (based on a five day working week), as a contingency period to cover any items such as rain & other delays. This contingency period will be used at the discretion of the Principal Agent</p> <p>F:..... V:..... T:.....</p> | | | |
| | | | | Item |
| 1.1.24 | <p>Clause 24.0 - Penalty for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p><u>Payment (A25 - A27)</u></p> | | | |
| | | | | Item |
| 1.1.25 | <p>Clause 25.0 - Payment</p> <p>F:..... V:..... T:.....</p> | | | |
| | | | | Item |
| 1.1.26 | <p>Clause 26.0 - Adjustment of the contract value and final account</p> <p>F:..... V:..... T:.....</p> | | | |
| | | | | Item |
| 1.1.27 | <p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p> <p><u>Suspension and termination (A28 - A29)</u></p> | | | |
| | | | | Item |
| 1.1.28 | <p>Clause 28.0 - Suspension by the contractor</p> <p>F:..... V:..... T:.....</p> | | | |
| | | | | Item |
| 1.1.29 | <p>Clause 29.0 - Termination</p> | | | |
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| | | Brought forward | R | |
| | F:..... V:..... T:..... | | Item | |
| | <u>Dispute resolution (A30)</u> | | | |
| 1.1.30 | Clause 30.0 - Dispute resolution | | | |
| | F:..... V:..... T:..... | | Item | |
| | <u>SECTION B: PRELIMINARIES</u> | | | |
| | <u>Interpretation (B1)</u> | | | |
| 1.1.31 | Clause 1.1 - Definitions | | | |
| | F:..... V:..... T:..... | | Item | |
| 1.1.32 | Clause 1.2 - Interpretation | | | |
| | F:..... V:..... T:..... | | Item | |
| | <u>Documents (B2)</u> | | | |
| 1.1.33 | Clause 2.1 - Checking of documents | | | |
| | F:..... V:..... T:..... | | Item | |
| 1.1.34 | Clause 2.2 - Provisional bills of quantities | | | |
| | The quantities in provisional bills of quantities are an indication of the works to be executed and are subject to remeasurement | | | |
| 1.1.35 | Clause 2.3 - Availability of construction information | | | |
| | Budgetary allowances and provisional sums | | | |
| | The budgetary allowances and/or provisional sums allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period | | | |
| | F:..... V:..... T:..... | | Item | |
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| | <p>The construction documentation for the works is not complete and will only be completed during the construction period. The contractor and principal agent shall work together to identify the requirements for the provision of construction documentation. The contractor and principal agent shall agree the dates that are reasonable by when the contractor is to be provided with each outstanding item of the anticipated construction documentation.</p> <p>The contractor and n/s subcontractor shall agree dates by when the n/s subcontractor is to be provided with each item of the outstanding documentation in terms of the programme.</p> | | |
| 1.1.36 | <p>Clause 2.4 - Ordering of materials and goods</p> <p>F:..... V:..... T:.....</p> <p>Previous work and adjoining properties (B3)</p> | Item | |
| 1.1.37 | <p>Clause 3.1 - Previous work - dimensional accuracy</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall, within a reasonable period after taking possession of the site, but not exceeding ten (10) per cent of the construction period or twenty (20) working days whichever is the lesser, check the existing levels, lines, profiles and the like affecting the works and satisfy himself as to the dimensional accuracy of work previously executed. The contractor shall forthwith notify the principal agent and request a contract instruction regarding any dimensional inaccuracy found in work previously executed</p> | Item | |
| 1.1.38 | <p>Clause 3.2 - Previous work - defects</p> <p>F:..... V:..... T:.....</p> <p>The contractor, on becoming aware of a defect in work previously executed, shall forthwith notify the principal agent requesting a contract instruction regarding such a defect.</p> | Item | |
| 1.1.39 | <p>Clause 3.3 - Inspection of adjoining properties</p> <p>F:..... V:..... T:.....</p> | Item | |
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| | <p>Before commencing the works, the principal agent and contractor shall arrange with the owners of adjacent buildings and properties and representatives of local authorities to inspect, among others, the buildings, structures, pavings, kerbs, channels and fences. The contractor shall record all conditions that the works could affect and copy the principal agent accordingly. The contractor shall pay particular attention to cracks, defects and existing levels related to structures, pavings, kerbs, channels and fences, which later could be claimed to have been caused or disturbed by the works.</p> <p>Where instructed by the principal agent, levels and photographs shall be taken by the contractor and the cost thereof shall be for the employer's account. Certified copies shall be lodged with the principal agent.</p> <p><u>The site (B4)</u></p> | | | |
| 1.1.40 | <p>Clause 4.1 - Defined works area</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.41 | <p>Clause 4.2 - Handover of site in stages</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.42 | <p>Clause 4.3 - Enclosure of the works</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.43 | <p>Clause 4.4 - Geotechnical investigation</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.44 | <p>Clause 4.5 - Encroachments</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.45 | <p>Clause 4.6 - Existing premises occupied</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.46 | <p>Clause 4.7 - Services - known</p> <p>F:..... V:..... T:.....</p> | | Item | |
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| | | Brought forward | R | |
| 1.1.47 | Clause 4.8 - Protection of trees and/or relevant natural features F:..... V:..... T:..... | | Item | |
| | <u>Management of contract (B5)</u> | | | |
| 1.1.48 | Clause 5.1 - Management of the works F:..... V:..... T:..... | | Item | |
| 1.1.49 | Clause 5.2 - Progress meetings F:..... V:..... T:..... | | Item | |
| 1.1.50 | Clause 5.3 - Technical meetings F:..... V:..... T:..... | | Item | |
| | <u>Samples, shop drawings and manufacturer's instructions (B6)</u> | | | |
| 1.1.51 | Clause 6.1 - Samples of materials F:..... V:..... T:..... | | Item | |
| 1.1.52 | Clause 6.2 - Workmanship samples F:..... V:..... T:..... | | Item | |
| 1.1.53 | Clause 6.3 - Shop drawings F:..... V:..... T:..... | | Item | |
| 1.1.54 | Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:..... | | Item | |
| | <u>Deposits and fees (B7)</u> | | | |
| 1.1.55 | Clause 7.1 - Deposits and fees F:..... V:..... T:..... | | Item | |
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| | | Brought forward | R | |
| | <u>Temporary services (B8)</u> | | | |
| 1.1.56 | Clause 8.1 - Water | | | |
| | F:..... V:..... T:..... | | Item | |
| 1.1.57 | Clause 8.2 - Electricity | | | |
| | F:..... V:..... T:..... | | Item | |
| 1.1.58 | Clause 8.3 - Ablution and welfare facilities | | | |
| | F:..... V:..... T:..... | | Item | |
| 1.1.59 | Clause 8.4 - Communication facilities | | | |
| | F:..... V:..... T:..... | | Item | |
| | <u>Prime cost amounts (B9)</u> | | | |
| 1.1.60 | Clause 9.1 - Responsibility for prime cost amounts | | | |
| | <i>Where details of materials for which prime cost amounts are to be allowed <u>are</u> readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc</i> | | | |
| | F:..... V:..... T:..... | | Item | |
| | <u>Attendance on subcontractors (B10)</u> | | | |
| 1.1.61 | Clause 10.1 - General attendance | | | |
| | F:..... V:..... T:..... | | Item | |
| 1.1.62 | Clause 10.2 - Special attendance | | | |
| | <u>General (B11)</u> | | | |
| 1.1.63 | Clause 11.1 - Protection of the works | | | |
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| 1.1.64 | Clause 11.2 - Protection/isolation of existing/sectionally occupied works F:..... V:..... T:..... | Item | |
| 1.1.65 | Clause 11.3 - Security of the works F:..... V:..... T:..... | Item | |
| 1.1.66 | Clause 11.4 - Notice before covering work F:..... V:..... T:..... | Item | |
| 1.1.67 | Clause 11.5 - Disturbance F:..... V:..... T:..... Clause 11.6 - Environmental disturbance F:..... V:..... T:..... | Item Item | |
| 1.1.68 | Clause 11.7 - Works cleaning and clearing F:..... V:..... T:..... | Item | |
| 1.1.69 | Clause 11.8 - Vermin F:..... V:..... T:..... | Item | |
| 1.1.70 | Clause 11.9 - Overhand work F:..... V:..... T:..... | Item | |
| 1.1.71 | Clause 11.10 - Tenant installations by direct contractors F:..... V:..... T:..... | Item | |
| 1.1.72 | Clause 11.11 - Advertising F:..... V:..... T:..... | Item | |
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| <u>Preliminaries schedule (B12)</u> | | | |
| 12.1 - Provisional bills of quantities [2.2] | | | |
| Yes | | | |
| 12.2 - Availability of construction information [2.3] | | | |
| No | | | |
| 12.3 - Previous work - dimensional accuracy [3.1] Yes | | | |
| 12.4 - Previous work - defects [3.2] | | | |
| 12.5 - Inspection of adjoining properties [3.3] Yes | | | |
| 12.6 - Defined works area [4.1] Yes | | | |
| 12.7 - Handover of site in stages [4.2] Yes | | | |
| 12.8 - Enclosure of the works [4.3] Yes | | | |
| 12.9 - Geotechnical investigation [4.4] Yes | | | |
| 12.10 - Existing premises occupied [4.6] No | | | |
| 12.11 - Services - known [4.7] Yes | | | |
| 12.12 - Protection of trees and/or relevant natural features [4.8] Yes | | | |
| 12.13 - Water [8.1] | | | |
| Option A (by contractor) | | | |
| No | | | |
| Option B (by employer - free of charge) | | | |
| No | | | |
| Option C (by employer - metered) | | | |
| Yes | | | |
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| <p>12.14 - Electricity [8.2]</p> <p>Option A (by contractor) No Option B (by employer - free of charge) No Option C (by employer - metered) Yes</p> <p>12.15 - Ablution and welfare facilities [8.3]</p> <p>Option A (by contractor) Yes Option B (by employer) No</p> <p>12.16 - Communication facilities [8.4]</p> <p>12.17 - Protection of the works [11.1]</p> <p>12.18 - Protection/isolation of existing/sectionally occupied works [11.2]</p> <p>No</p> <p>12.19 - Disturbance [11.5]</p> <p>12.20 - Environmental disturbance [11.6]</p> <p>F:..... V:..... T:.....</p> | | |
| | | Item |
| <p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p> <p>The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor</p> <p>F:..... V:..... T:.....</p> | | |
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| 1.1.73 | <p>Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.74 | <p>Co-operation of the contractor for cost management</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.75 | <p>Overloading</p> <p>The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.76 | <p>Propping of floors below</p> <p>The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor</p> <p>F:..... V:..... T:.....</p> | | Item | |
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| 1.1.77 | <p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.78 | <p>Advertising rights</p> <p>The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting the obligations under this agreement</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.79 | <p>Confidentiality</p> <p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works</p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the employer</p> <p>F:..... V:..... T:.....</p> | | Item | |
| 1.1.80 | <p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer</p> <p>The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement connected with this project to be printed, screened or aired by the media</p> <p>F:..... V:..... T:.....</p> | | Item | |
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| 1.1.81 | <p>Tenderers are to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the Standard System of Measurement) patterns, models and templates, plant, temporary works, returning of packing, duties, taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the agreement.</p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the tenderer's omission to price any item will be entertained.</p> <p>Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.</p> <p>The contractor shall execute work during "overtime" hours as necessary in order to complete the project within the agreed construction period and shall provide such resources and work such overtime hours as necessary. Costs for the execution of this work under these conditions shall be included within the contract sum.</p> | | Item |
| 1.1.82 | <p>Tenderers are advised that the nature of this contract is such that the detail design will evolve in parallel with construction.</p> <p>The Tenderer acknowledges that he is aware that the project detail design and related planning and production of drawings are in an embryonic stage and that the appointments of major selected/nominated subcontractors have yet to take place and that notwithstanding this, the rates and prices contained herein, shall remain of full force and effect.</p> | | Item |
| 1.1.83 | <p>All costs incurred by the contractor in the preparation of claims to the satisfaction of the principal agent and/or quantity surveyor shall be borne by the contractor. The contractor shall provide a written opinion on all claims, including those submitted by selected/nominated subcontractors, pertaining to reduced time available for execution of the relevant work, out-of-sequence working, lack of access or claims of a similar nature.</p> | | Item |
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| 1.1.84 | <p>Submission of a tender shall be deemed as acceptance by the contractor that he is satisfied with the scope of the insurances effected by the employer, supplemented by any additional insurance considered necessary by himself.</p> <p>The employer warrants that the insurances effected by him shall remain in force for the duration of the contract including the period of maintenance.</p> <p>Any clarification of the scope of cover provided by the policies arranged by the employer should be obtained from the employer's insurance brokers.</p> <p>The contractor warrants that he shall give all notices and shall observe all the terms and conditions and requirements of all insurances applicable to this contract.</p> <p>Where the contractor is responsible for the appointment of sub-contractors, then the contractor shall:</p> <ul style="list-style-type: none"> i) ensure that potential and appointed subcontractors are aware of the whole content of Clauses A10.0, A11.0 and A12.0 ii) ensure the compliance of subcontractor with these Clauses where applicable. | Item | |
| 1.1.85 | <p>In the In the event of any occurrence which is likely to give rise to a claim under the insurances arranged by the employer, the contractor / subcontractor shall :-</p> <ul style="list-style-type: none"> i) In addition to any statutory requirement or other requirements contained in the agreement, immediately notify the employer's insurance brokers by telephone or telefax, giving the circumstances, nature and an estimate of the loss or damage or liability; ii) Complete a claims advice form per Annexure "L", in conjunction with both the principal agent and the employer and return it to the insurance brokers without delay; iii) Assist as required, in negotiations of the settlement of claims with the insurers through the employer's insurance brokers. <p>The employer shall have the right to make all and any enquiry on the site or elsewhere as to the cause and results of any such occurrence and the contractor shall give the employer and his insurers full facilities for carrying out such enquiries.</p> | Item | |
| | Carried forward | R | |
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| | Brought forward | R | |
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| 1.1.86 | <p>Copies of the structural engineer's drawings showing the positions of construction breaks and the extent of individual concrete pours are to be maintained by the contractor for record purposes and are to be submitted to the structural engineers for their records, at the end of the project.</p> <p>All such as-built drawings are required to be lodged prior to the issue of the certificate of works completion (refer Clause A25 hereof).</p> | Item | |
| 1.1.87 | <p>The contractor shall obtain and hand over to the principal agent on practical completion, all relevant guarantees and operating and maintenance manuals, as required by the principal agent or provided by manufacturers, suppliers or subcontractors.</p> <p>The contractor shall ensure that all warranties and guarantees received are fully ceded to the employer on works completion, failing which, the issue of the works completion certificate and the release of construction guarantee, will be withheld until this is satisfactorily completed.</p> <p>The guarantees shall state that workmanship, materials and installations are guaranteed for a specified period reckoned from the date of practical completion of the works and that any defects in the workmanship, materials and installation that may arise during that period, shall be made good at the expense of the contractor / subcontractors doing the work, upon written notice from the principal agent or the employer to do so.</p> | Item | |
| 1.1.88 | At completion, the contractor shall leave the works secure with all accesses locked. The contractor shall account for and hand over to the principal agent all keys, properly labelled with an itemised schedule to be signed by the principal agent as receipt. | Item | |
| 1.1.89 | The contractor shall take all appropriate measures for general security of the works | Item | |
| 1.1.90 | The contractor shall give adequate notice to the principal agent whenever any work or material which is subject to inspection or remeasurement is to be covered or concealed in any way. In default of such a notice being received timeously by the principal agent such work shall be exposed and later made good at the contractor's expense. | Item | |
| 1.1.91 | The contractor shall execute the works with a minimum of disturbance to adjoining premises, any parts of the works already handed over and the occupants of those premises and/or parts. | Item | |
| 1.1.92 | The contractor shall execute the works without any unreasonable adverse effect on the environment. | Item | |
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| | Brought forward | R | |
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| 1.1.93 | The contractor shall produce, when required to do so by the principal agent, a method statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the works. Any approval given or observation made by the principal agent shall not relieve the contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the works. | Item | |
| 1.1.94 | The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works, scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc., to the principal agent for their approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agents requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole experience. | Item | |
| 1.1.95 | The contractor shall take all reasonable measures to ensure that all alteration works are structurally practicable and safe. The contractor shall provide and price under the relevant demolition item, for all necessary temporary propping and support which may be required. | Item | |
| 1.1.96 | The contractor shall remove from the site all materials not conforming with the relevant specification and condemned by the principal agent, whether incorporated in the works or not. He shall replace such material and re-execute the affected work in accordance with the contract and without expense to the employer. | Item | |
| 1.1.97 | Notwithstanding anything to the contrary contained herein, the principal agent at all times reserves the right to direct the order in which the various parts of the contract are to be executed. The contractor shall give priority to any individual section or portion of the works that, in the opinion of the principal agent, requires to be expedited. | | |
| | Should the contractor and/or principal agent be of the opinion that such instruction warrants a revision to the contract programme, then the provisions of Clause A15.6.6 hereof shall apply. | | |
| | Should it appear, in the principal agent's opinion, that work in any area is not being executed in accordance with the requirements of the programme, the contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the principal agent. | Item | |
| | Carried forward | R | |
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| | Brought forward | R | |
| 1.1.98 | <p>The contractor shall indemnify the principal agent against any action, claim, demand, costs or expenses arising from or incurred by reason of any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor, but such indemnity shall not cover any use of the equipment or part thereof otherwise than in accordance with the provisions of the specification.</p> <p>All payments and royalties payable in one sum or by instalments or otherwise, shall be included by the contractor in the price and shall be paid by him to those to whom they may be due or payable.</p> <p>In the event of any claim being made or action brought against the principal agent arising out of the matter referred to in this clause, the contractor shall be promptly notified thereof and may, at his own expense, conduct negotiations for the settlement of the same and/or litigation, that may arise therefrom. The principal agent shall not, unless and until the contractor shall have failed to take over and conduct the negotiations of litigation, make any admission which might be prejudicial thereto.</p> <p>The conduct by the contractor of such negotiations or litigation shall be conditional upon the contractor having first given the principal agent such reasonable security as shall from time to time be required by the principal agent, to cover the amount ascertained or agreed or estimated, as the case may be, or any compensation, damage, expenses and costs for which the principal agent may become liable in respect of such infringement as aforesaid. The principal agent shall, at the request of the contractor, afford all available assistance for the purpose of contesting any such claim or action and shall be repaid the expenses incurred in doing so.</p> <p>The conduct by the contractor of such negotiations or litigation shall be conditional upon the contractor having first given the principal agent such reasonable security as shall from time to time be required by the principal agent, to cover the amount ascertained or agreed or estimated, as the case may be, or any compensation, damage, expenses and costs for which the principal agent may become liable in respect of such infringement as aforesaid. The principal agent shall, at the request of the contractor, afford all available assistance for the purpose of contesting any such claim or action and shall be repaid the expenses incurred in doing so.</p> | | |
| | | Item | |
| 1.1.99 | <p>Note : The contractor is to ensure that the following requirements, as stated in the subcontractor documentation in respect of specialist equipment and services installations by specialist subcontractors under his control, are adhered to:</p> | | |
| | | Item | |
| | Carried forward | R | |
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| | Brought forward | R | |
| 1.1.100 | <p>All specialist plant and equipment, subject to the principal agents sole discretion, is subject to acceptance tests, which shall be arranged in the works of the subcontractor / supplier within 10 days of notification that such plant or equipment is available for testing . The subcontractor shall inform the principal agent in writing, indicating the exact dates for these acceptance tests during the course of the last month of manufacture of such plant or equipment.</p> <p>In the event that the principal agent or his representatives cannot witness such tests, the employer may:</p> <p>i) appoint a specialist inspection organisation to witness such tests at his expense on behalf of the principal agent or his representatives.</p> <p>OR</p> <p>ii) accept the subcontractors certificate testifying as to the quality and performance of the specialist plant / equipment so supplied.</p> <p>Should no inspection have been made by the date indicated by the subcontractor as set out above, the equipment will be deemed as accepted and packed accordingly for delivery.</p> <p>The final acceptance will take place on site in the presence of the subcontractor responsible for the commissioning of the equipment. The principal agents representative shall also be present.</p> <p>The subcontractor shall demonstrate to the principal agent the full scope of operation of the installation and shall ensure that he is satisfied that the principal agent is fully aware of all the operational aspects of the installation prior to handover at practical completion stage.</p> <p>The principal agents shall be afforded access at all reasonable times to such part of the works on site or at the subcontractor's premises or the premises of the manufacturer of component parts, as may be necessary for the purpose of inspecting, examining and testing the materials, workmanship and performance of any plant or equipment for the works.</p> <p>The subcontractor shall be responsible for the tests required by any local statute, building regulation, etc.</p> <p>Any breakdown or mechanical failure and any damage or consequential losses which may arise from such breakdown, mechanical or structural failure, will be the responsibility of the subcontractor.</p> | | |
| | Carried forward | R | |
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Item

Brought forward

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1.1.101

The efficiency of the design is the responsibility of the subcontractor who shall ensure that the quality of workmanship and the installation of equipment meets the requirements of the specification and is done in such a manner that the equipment performance meets with the figures published by the manufacturers an/or suppliers. The subcontractor, by entering into this contract, shall be deemed to have offered his services, workmanship, materials and equipment to meet the requirements of the specification and shall further be deemed to have ensured that the suppliers and manufacturers of the equipment installed by him under this contract, have manufactured and supplied such equipment to perform within the recommended limits of the manufacturer's design and performance figures, as well as to comply with the specification supplied.

Item

1.1.102

The subcontractor shall guarantee the complete installation for a period of one year from the date of acceptance of the installation by the principal agent against defects as a result of patent or latent defects of the design and apparatus, as well as against faulty materials and workmanship. The guarantee must provide that all parts, spares, consumables and appurtenances that become defective during the guarantee period, be replaced free of charge of any nature to the employer. The costs of labour and transportation required to replace such part of a defective installation, shall be borne by the subcontractor and shall be included in his guarantee.

The expiry of the one year guarantee period shall in no way relieve the subcontractor of any of his obligations and/or responsibilities in respect of latent defects in terms of Clause A27 hereof.

The subcontractor shall cede to the employer the remainder of any equipment guarantee which he has received from his suppliers and which extends beyond the period of twelve months mentioned herein.

Item

1.1.103

The subcontractor shall commission and test the entire installation at his own expense, including provision of all test equipment. Such testing is to be done in the presence of the principal agent, who shall have been notified of the dates and approximate duration of the tests, sufficiently in advance so as to allow attendance at such tests

Item

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

Carried to Final Summary

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| Item No | Description | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>REPAIRS AND RENOVATIONS TO EXISTING BUILDINGS (PROVISIONAL)</u></p> <p>NOTE: For the purposes of tendering, only the total quantity shall be used in calculating the amount for inclusion in the tender at the tendered rate. The quantities in the description column immediately below the item represent the quantities per section for information and administration only as follows:</p> <p>A - Administration Block</p> <p>B - Customer Service</p> <p>C - Platform Shelter and TVP</p> <p>D - External Works</p> <p>E - HVAC</p> <p>F - Fire Protection Equipments</p> <p>G - Electrical Installation</p> <p>H - Security and Cleaners Staff Accommodation</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> | | | |
| | Carried forward | | R | |
| | <p>Bill No. 1</p> <p>ALTERATIONS (PROVISIONAL)</p> <p>PRASA</p> <p>Prepared By SIST Consortium</p> | | | |

| | |
|--|--------------------------------------|
| <p style="text-align: center;">Brought forward</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>Taking Out and Removal of Asbestos</u></p> <p>Taking out and removing asbestos roof, gutters, underlay, fibreglass, downpipes, etc. must be in strict accordance with health and occupational safety regulations and a specialist firm must be contracted to dispose of the material</p> <p><u>Demolitions</u></p> <p>All demolition work is to be carried out in accordance with the local by-laws.</p> <p>All demolition is to be carried out in strict accordance with the instructions and to the satisfaction of the Principal Agent.</p> <p><u>General</u></p> <p>Descriptions of taking out shall be deemed to include carting away from site to a dump ground to be found by the contractor</p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p> | <p style="text-align: center;">R</p> |
| <p style="text-align: center;">Carried forward</p> <p>Bill No. 1 ALTERATIONS (PROVISIONAL) PRASA Prepared By SIST Consortium</p> | <p style="text-align: center;">R</p> |

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| | | | | |
|-------|---|----|----|----------|
| | Brought forward | | | R |
| | <u>Breaking down and removing brickwork etc</u> | | | |
| 2.1.1 | One brick walls | m2 | 3 | |
| | A : 0 B : 3 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | |
| | <u>Taking out and removing doors, windows, etc including thresholds, sills, etc and prepare surface to receive new door and gates</u> | | | |
| 2.1.2 | Timber single door size, door size 813 x 2032mm high. | No | 11 | |
| | A : 0 B : 2 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 9 | | | |
| 2.1.3 | Steel gate size, door size 813 x 2032mm high. | No | 1 | |
| | A : 1 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | |
| | <u>Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good cement plaster on both sides (making good paintwork elsewhere)</u> | | | |
| 2.1.4 | Steel window size 600 x 400mm High | No | 1 | |
| | A : 1 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | |
| | <u>Taking out doors, windows, etc, including thresholds, sills, etc. setting aside for re-use and later re-fixing in similar new position</u> | | | |
| 2.1.5 | Glazed steel window 1000 x 600mm high, including setting up and building in new brickwork and replacing any broken glass panes with 6mm clear float glass | No | 4 | |
| | A : 0 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 4 | | | |
| | Carried forward | | | R |
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|--------|--|----|-----|----------|
| | Brought forward | | | R |
| | <u>Taking down and removing roofs, floors, panelling ceilings, partitions, gutters, downpipes, fascias, barges, chalkboards, pinning boards, etc. completely (new work elsewhere measured) including carting away</u> | | | |
| 2.1.6 | Gypsum plasterboard ceilings including cornices, timber bandering, etc | m2 | 334 | |
| | A : 215 B : 37 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 82 | | | |
| 2.1.7 | Fibre cement fascia boards and fixings | m | 127 | |
| | A : 23 B : 64 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 39 | | | |
| 2.1.8 | Fibre cement barge boards and fixings | m | 32 | |
| | A : 7 B : 7 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 18 | | | |
| 2.1.9 | Aluminium rainwater gutters and fixings | m | 127 | |
| | A : 23 B : 64 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 39 | | | |
| 2.1.10 | Aluminium rainwater downpipes and fixings | m | 88 | |
| | A : 21 B : 25 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 42 | | | |
| | <u>Taking out and removing piping, sanitary fittings, etc including making good pipework to receive new fittings</u> | | | |
| 2.1.11 | Vitreous paraplegic WC pan with flush valve, including short lengths of piping, etc | No | 2 | |
| | A : 1 B : 1 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | |
| 2.1.12 | Vitreous china wall hung urinal with flush valve, including short lengths of piping, etc | No | 3 | |
| | A : 3 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | |
| | Carried forward | | | R |
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| | Brought forward | | R |
|---|--|----|-----|
| 2.1.13 | Vitreous china wash hand basin, including short lengths of piping, etc A : 6 B : 1 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 Taking out/off and removing sundry metalwork | No | 7 |
| 2.1.14 | Remove existing steel slatted seating 5800mm long x 450mm wide A : 0 B : 0 C : 12 D : 0 E : 0 F : 0 G : 0 H : 0 Taking out and removing sundry joinery work | No | 12 |
| 2.1.15 | Timber skirtings from brickwork A : 37 B : 197 C : 0 D : 0 E : 0 F : 0 G : 0 H : 72 Taking up and removing vinyl floor coverings, carpeting, etc | m | 306 |
| 2.1.16 | Ceramic tile floor covering including preparing screed for new vinyl floor covering A : 69 B : 183 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 Taking out and removing glass and mirrors | m2 | 252 |
| 2.1.17 | Glass from steel windows including cleaning out rebates and preparing for new glass (Glass elsewhere measured) A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 BUILDING UP OPENINGS Brickwork in NFP bricks in class II mortar in building up openings | m2 | 1 |
| 2.1.18 | One brick walls A : 0 B : 2 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 MAKING GOOD OF FINISHES ETC | m2 | 2 |
| | Carried forward | | R |
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Making good face brickwork

| | | | |
|--------|---|----|-----|
| 2.1.19 | Cleaning and sealing of existing face brickwork | m2 | 639 |
| | A : 330 B : 0 C : 309 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

Servicing of existing windows/doors

| | | | |
|--------|--|----|----|
| 2.1.20 | Servicing of window mechanism | No | 25 |
| | A : 10 B : 15 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

OPENINGS THROUGH EXISTING WALLS ETC

Breaking out for and forming openings through brick walls for new windows, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with sloping fibre-cement sills on outside and flat fibre-cement sills on inside (new windows and making good paintwork elsewhere)

| | | | |
|--------|--|----|---|
| 2.1.21 | Opening for window 600 x 400mm high through one brick wall | No | 1 |
| | A : 1 B : 0 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

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| Item No | Description | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
| | <p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Classification of materials</u></p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p> <p>If the contractor considers that any of the excavations are more difficult in nature than excavations in "earth", he shall immediately notify the Engineer and quantity surveyor in writing. If the contractor fails to make such notification, the excavations shall be deemed to be in "earth" and shall be measured, and valued, accordingly.</p> <p>The contractor may, with the prior written permission of the Engineer and in terms of the conditions of contract, use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the materials excavated.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Keeping excavations free of water</u></p> <p>The contractor shall protect the excavations from the ingress of water. Any water which occurs in the excavations, whether as a result of seepage, rain, or other causes, shall immediately be removed by baling, pumping, or other approved means.</p> | | | | |
| | Carried forward | | | R | |
| | <p>Bill No. 2</p> <p>EARTHWORKS (PROVISIONAL)</p> <p>PRASA</p> <p>Prepared By SIST Consortium</p> | | | | |

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|-------|--|----|-----|----------|--|
| | Brought forward | | | R | |
| | <p><u>Formwork</u></p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p><u>Spescification</u></p> <p>Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference.</p> | | | | |
| | <p><u>EXCAVATION OTHER THAN BULK</u></p> <p><u>Excavate in earth not exceeding 2m deep</u></p> | | | | |
| 2.2.1 | <p>To reduce levels under floors</p> <p style="margin-left: 40px;">A : 0.2 B : 0.0 C : 0.0 D : 0.0</p> <p style="margin-left: 40px;">E : 0.0 F : 0.0 G : 0.0 H : 0.0</p> | m3 | 0.2 | | |
| | <p><u>Excavation in earth not exceeding 2m deep</u></p> | | | | |
| 2.2.2 | <p>Trenches</p> <p style="margin-left: 40px;">A : 7 B : 19 C : 10 D : 0</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 18</p> | m3 | 53 | | |
| 2.2.3 | <p>Holes</p> <p style="margin-left: 40px;">A : 0 B : 0 C : 0 D : 1</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 0</p> | m3 | 1 | | |
| | <p><u>Extra over trench and hole excavations in earth for excavation in</u></p> | | | | |
| 2.2.4 | <p>Soft rock</p> <p style="margin-left: 40px;">A : 1 B : 2 C : 1 D : 0</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 2</p> | m3 | 5 | | |
| | Carried forward | | | R | |
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|-------|--|-----------------|----|-----|---|
| | | Brought forward | | | R |
| 2.2.5 | Hard rock | | m3 | 15 | |
| | A : 1 B : 4 C : 2 D : 4 | | | | |
| | E : 0 F : 0 G : 0 H : 4 | | | | |
| | <u>WORKING SPACE</u> | | | | |
| | <u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density</u> | | | | |
| 2.2.6 | for placing and removing formwork not exceeding 1500mm deep etc. 300mm away from excavated face | | m2 | 266 | |
| | A : 22 B : 64 C : 32 D : 88 | | | | |
| | E : 0 F : 0 G : 0 H : 60 | | | | |
| | <u>Extra over back excavation in earth for working space for excavation in soft rock</u> | | | | |
| 2.2.7 | Back excavation in soft rock not exceeding 1500mm deep etc. 300mm away from excavated face | | m2 | 5 | |
| | A : 1 B : 2 C : 1 D : 0 | | | | |
| | E : 0 F : 0 G : 0 H : 2 | | | | |
| | <u>Extra over back excavation in earth for working space for excavation in hard rock</u> | | | | |
| 2.2.8 | Back excavation in hard rock not exceeding 1500mm deep etc. 300mm away from excavated face | | m2 | 44 | |
| | A : 4 B : 13 C : 6 D : 8 | | | | |
| | E : 0 F : 0 G : 0 H : 12 | | | | |
| | <u>CARTING AWAY</u> | | | | |
| | <u>Extra over all excavations for carting away</u> | | | | |
| 2.2.9 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.(No allowance made for increase in bulk, to be factored in rate) | | m3 | 47 | |
| | A : 4 B : 12 C : 6 D : 15 | | | | |
| | E : 0 F : 0 G : 0 H : 11 | | | | |
| | <u>RISK OF COLLAPSE</u> | | | | |
| | | Carried forward | | | R |
| | Bill No. 2 EARTHWORKS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

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Risk of collapse of excavations

2.2.10 Sides of trench and hole excavations not exceeding 1,5m deep

m2

178

A : 22 B : 64 C : 32 D : 0
E : 0 F : 0 G : 0 H : 60

KEEPING EXCAVATIONS FREE OF WATER

Keeping excavations free of water

2.2.11 Keeping excavations free of all water other than subterranean water

Item

FILLING, ETC:

Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density

2.2.12 Backfilling to trenches, holes, etc

m3

29

A : 3 B : 8 C : 4 D : 7
E : 0 F : 0 G : 0 H : 7

COMPACTION

Compaction of surfaces

2.2.13 Trim, level off and 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 95% Mod AASHTO density

m2

1

A : 1 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0

TESTS

Prescribed density tests on filling

2.2.14 "Modified AASHTO Density" test on request by the engineer

No

1

A : 1 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0

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2.2.15 "Field Density" test including "Optimum Moisture Content" (four readings per test)

No

1

A : 1 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0

SOIL POISONING

Approved brand of anti-termite soil poison applied by a Registered Pest control company and guaranteed against termite infestation for ten years.
Soil Insecticide in accordance with SANS 5859

2.2.16 To bottoms and sides of trenches etc

m2

341

A : 29 B : 83 C : 42 D : 109
E : 0 F : 0 G : 0 H : 78

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| Item No | Description | Unit | Quantity | Rate | Amount |
|---------|---|------|----------|------|--------|
| | <p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p><u>Concrete</u></p> <p>Where concrete is described as "cast against excavated surfaces" the Contractor is to allow in his rates for additional concrete to make up this tolerance/overbreak. The final net volumes of concrete shall be measurable from drawings only and no claims with regard to additional concrete to compensate for tolerances shall be entertained</p> <p>Contractors are to include for any supplementary materials, placing, pumping, vibration or waste on placed quantities etc.. that are required in order to provide for a fully installed rate. (Net placed volumes are measured in the bills of quantities)</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> | | | | |
| | Carried forward | | | R | |
| | <p>Bill No. 3</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT (PR</p> <p>PRASA</p> <p>Prepared By SIST Consortium</p> | | | | |

| | | | | | |
|-------|---|----|----|---|--|
| | Brought forward | | | R | |
| | <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to sides of footings, beams, column bases, columns, etc., in foundations is to be finally measured and paid for only where specifically instructed by the appointed Consultant Engineer <u>in writing</u></p> <p><u>Specification</u></p> <p>Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference.</p> | | | | |
| | <p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>15MPa/19mm concrete</u></p> | | | | |
| 2.3.1 | <p>Surface blinding under footings and bases</p> <p style="margin-left: 40px;">A : 0 B : 1 C : 0 D : 1</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 1</p> | m3 | 4 | | |
| | <p><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></p> <p><u>25MPa/19mm concrete</u></p> | | | | |
| 2.3.2 | <p>Strip Footings</p> <p style="margin-left: 40px;">A : 2 B : 6 C : 3 D : 0</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 5</p> | m3 | 16 | | |
| 2.3.3 | <p>Bases</p> <p style="margin-left: 40px;">A : 0 B : 0 C : 0 D : 2</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 0</p> | m3 | 2 | | |
| | Carried forward | | | R | |
| | <p>Bill No. 3 CONCRETE, FORMWORK AND REINFORCEMENT (PR PRASA Prepared By SIST Consortium</p> | | | | |

| Brought forward | | | | | | | | R |
|--|--|--|--|--|----|-----|--|---|
| 2.3.4 | Concrete bench A : 1 B : 0 C : 3 D : 0 E : 0 F : 0 G : 0 H : 0 <u>30MPa/19mm concrete</u> | | | | m3 | 4 | | |
| 2.3.5 | Stairs including landings, beams and inverted beams A : 3 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 <u>CONCRETE SUNDRIES</u> <u>Test Blocks</u> | | | | m3 | 3 | | |
| 2.3.6 | Making and testing 150 x 150 x 150mm concrete strength test cube A : 0 B : 5 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 <u>Finishing top surfaces of concrete smooth with a wood float finish</u> | | | | No | 5 | | |
| 2.3.7 | Surface beds, ramps, etc. A : 0 B : 1 C : 34 D : 0 E : 0 F : 0 G : 0 H : 0 <u>FORMWORK</u> <u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u> <u>Rough formwork to sides</u> | | | | m2 | 35 | | |
| 2.3.8 | Strip footings not exceeding 300mm high or wide A : 22 B : 64 C : 32 D : 0 E : 0 F : 0 G : 0 H : 60 <u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u> | | | | m | 178 | | |
| Carried forward | | | | | | | | R |
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Rough formwork to sides

| | | | |
|-------|--|---|---|
| 2.3.9 | Sloping and stepped outer edges of stairs not exceeding 350mm high extreme | m | 6 |
| | A : 6 B : 0 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

| | | | |
|--------|--|---|-----|
| 2.3.10 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 105 |
| | A : 30 B : 0 C : 75 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

| | | | |
|--------|--|---|----|
| 2.3.11 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 10 |
| | A : 10 B : 0 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

Rough formwork to soffits

| | | | |
|--------|--|----|---|
| 2.3.12 | Stairs with sloping soffits | m2 | 1 |
| | A : 1 B : 0 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

| | | | |
|--------|---|----|----|
| 2.3.13 | Landings | m2 | 35 |
| | A : 1 B : 0 C : 34 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

REINFORCEMENT (PROVISIONAL)

High tensile & Mild steel reinforcement to structural concrete work

| | | | |
|--------|--|---|------|
| 2.3.14 | Various Diameter Bars | t | 4.48 |
| | A : 0.37 B : 0.58 C : 0.29 D : 2.71 | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 0.54 | | |

Fabric reinforcement

| | | | |
|--------|--|----|----|
| 2.3.15 | Type 193 fabric reinforcement laid in surface beds, bases etc. | m2 | 34 |
| | A : 0 B : 0 C : 34 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

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|---------|---|------|----------|------|--------|
| | <p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 4</u></p> <p><u>MASONRY (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.</p> <p><u>Specification</u></p> <p>Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference.</p> <p><u>Hollow walls</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><u>BLOCKWORK</u></p> | | | | |
| | Carried forward | | | R | |
| | <p>Bill No. 4</p> <p>MASONRY (PROVISIONAL)</p> <p>PRASA</p> <p>Prepared By SIST Consortium</p> | | | | |

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| | <u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength as indicated in item descriptions <u>Blockwork</u> Blockwork shall comply with SANS 10145 "Concrete Masonry Construction" | | | | |
| | <u>FOUNDATIONS</u> <u>BRICKWORK</u> <u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u> | | | | |
| 2.4.1 | Half brick wall <div style="display: flex; justify-content: space-between;"> A : 4 B : 0 C : 0 D : 0 </div> <div style="display: flex; justify-content: space-between;"> E : 0 F : 0 G : 0 H : 0 </div> | m2 | 4 | | |
| 2.4.2 | One brick wall <div style="display: flex; justify-content: space-between;"> A : 4 B : 7 C : 0 D : 0 </div> <div style="display: flex; justify-content: space-between;"> E : 0 F : 0 G : 0 H : 20 </div> | m2 | 31 | | |
| | <u>SUPERSTRUCTURE</u> <u>BRICKWORK</u> <u>Brickwork of NFP clay bricks in class II mortar</u> | | | | |
| 2.4.3 | Half brick walls <div style="display: flex; justify-content: space-between;"> A : 18 B : 0 C : 0 D : 0 </div> <div style="display: flex; justify-content: space-between;"> E : 0 F : 0 G : 0 H : 0 </div> | m2 | 18 | | |
| 2.4.4 | One brick walls formed from two 90mm skins including wall ties <div style="display: flex; justify-content: space-between;"> A : 3 B : 0 C : 0 D : 0 </div> <div style="display: flex; justify-content: space-between;"> E : 0 F : 0 G : 0 H : 0 </div> | m2 | 3 | | |
| | <u>BRICKWORK SUNDRIES</u> | | | | |
| | Carried forward | | | | R |
| | Bill No. 4 MASONRY (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

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| | Brought forward | | | R | |
| | <u>Bagging of 1:3 cement and sand mixture</u> | | | | |
| 2.4.5 | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric (LI) A : 3 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m2 | 3 | | |
| | <u>Slip joints</u> | | | | |
| 2.4.6 | 230mm Wide horizontal slip joints at junction of slabs and loadbearing brick walls consisting of two layers of 3 Ply Malthoid between concrete and masonry surfaces A : 0 B : 0 C : 0 D : 10 E : 0 F : 0 G : 0 H : 0 | m | 10 | | |
| | <u>Brickwork reinforcement</u> | | | | |
| 2.4.7 | 75mm Wide reinforcement built in horizontally A : 70 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m | 70 | | |
| 2.4.8 | 150mm Wide reinforcement built in horizontally A : 91 B : 231 C : 116 D : 0 E : 0 F : 0 G : 0 H : 217 | m | 655 | | |
| | <u>Prestressed fabricated concrete lintels including temporary "Turning piece" supports</u> | | | | |
| 2.4.9 | 110 x 75mm Lintels in lengths not exceeding 3m long A : 12 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m | 12 | | |
| | <u>Galvanised wire ties etc</u> | | | | |
| 2.4.10 | 30 x 1.6mm Roof tie 1.6m long with one end built into brickwork and other end fixed to timber A : 22 B : 61 C : 0 D : 0 E : 0 F : 0 G : 0 H : 37 | No | 120 | | |
| | Carried forward | | | R | |
| | Bill No. 4 MASONRY (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

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Air bricks etc

2.4.11 229 x 152mm Terra-cotta vermin proof air brick
 A : 4 B : 4 C : 0 D : 0
 E : 0 F : 0 G : 0 H : 8

No 16

FACE BRICKWORK

FBS face bricks in stretcher bond with ruled joints and perpend internally and externally

2.4.12 Extra over brickwork for face brickwork (LI)
 A : 3 B : 0 C : 0 D : 0
 E : 0 F : 0 G : 0 H : 0

m2 3

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| | <p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 5</u></p> <p><u>WATERPROOFING (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>GENERAL</u></p> <p>PREPARATION : All surfaces to receive waterproofing are to be thoroughly cleaned down to remove grease spots, concrete laitance, etc., wire brushed and free from dust and loose material and thoroughly dry before commencement of any waterproofing.</p> <p>SPECIALIST WATERPROOFER : The waterproofer shall apply the waterproofing and secondary materials in accordance with application techniques which are approved by the manufacturer of the waterproofing.</p> <p><u>MATERIALS</u></p> <p>GENERAL : All waterproofing to be layed in accordance with SABS 021-1973 "The Waterproofing of Buildings".</p> <p>BITUMEN : Bitumen primer is to be spread at a rate of 0,3 litres per m² and allowed to dry before the waterproof sheeting is laid.</p> <p>WATERPROOF SHEETING : Tenderers must allow for the design, supply and installation of all waterproofing for areas included . Tenderers are to include for the preparation of the substrate in accordance with manufacturers specifications.</p> <p>Proprietary waterproofing specifications available to tenderers include, but is not limited to, Derbigum, Index, Bituthene. Any proposed specification, which must have a proven track record, shall be submitted to the Principal Agent for comment and record purposes. The sub-contractor shall be an approved applicator of the chosen system/specification. The manufacturer is required to do regular inspections and be present at all flood and drench tests."</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 5 WATERPROOFING (PROVISIONAL) PRASA Prepared By SIST Consortium</p> | | | | |
| | | | | R | |

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|-------|---|----|---|---|--|
| | Brought forward | | | R | |
| | <p><u>PROTECTION</u></p> <p>All necessary precautions are to be taken for the protection of completed work.</p> <p><u>PRICES</u></p> <p>Prices are to include for all preparation of surfaces to receive waterproofing, preparation of surfaces between layers and for cleaning off on completion.</p> <p>Prices are to include for lapping and sealing, etc. and all cutting and waste.</p> <p><u>WATERPROOFING GUARANTEE</u></p> <p>GUARANTEE : The Contractor shall furnish a 10 year waterproofing guarantee for all the waterproofing including flashings, outlets and other details installed.</p> | | | | |
| | <p><u>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron embossed damp proof course</u></p> | | | | |
| 2.5.1 | <p>In walls, in cavities, in lintels, under copings, under sills, etc.</p> <p style="margin-left: 40px;">A : 2 B : 0 C : 0 D : 0</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 0</p> | m2 | 2 | | |
| | <p><u>Two coats brixeal bitumen emulsion waterproof coating</u></p> | | | | |
| 2.5.2 | <p>On brick walls</p> <p style="margin-left: 40px;">A : 3 B : 0 C : 0 D : 0</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 0</p> | m2 | 3 | | |
| | <p style="text-align: right;">Carried Forward to Sectional Summary:</p> <p>Bill No. 5 WATERPROOFING (PROVISIONAL) PRASA Prepared By SIST Consortium</p> | | | R | |

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|---------|---|----------|------|--------|
| | <u>SECTION NO. 2</u> | | | |
| | <u>BILL NO. 6</u> | | | |
| | <u>CARPENTRY AND JOINERY</u> | | | |
| | <u>(PROVISIONAL)</u> | | | |
| | <u>Wrought softwood</u> | | | |
| 2.6.1 | 76 x 50mm Purlins (LI) A : 443 B : 104 C : 0 D : 0 E : 0 F : 0 G : 0 H : 165 | m | 712 | |
| 2.6.2 | 38 x 114mm Timber backing board fixed onto rafter for fascia boards (LI) A : 23 B : 64 C : 0 D : 0 E : 0 F : 0 G : 0 H : 39 | m | 127 | |
| | <u>EAVES, VERGES, ETC.</u> | | | |
| | <u>Medium density fibre reinforced cement boards to comply with SANS 10400 Part L</u> | | | |
| 2.6.3 | 12mm x 300mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers A : 23 B : 64 C : 0 D : 0 E : 0 F : 0 G : 0 H : 39 | m | 127 | |
| 2.6.4 | 12mm x 300mm Barge boards including H-profile jointing strips A : 7 B : 7 C : 0 D : 0 E : 0 F : 0 G : 0 H : 18 | m | 32 | |
| | <u>SKIRTINGS</u> | | | |
| | <u>Wrought meranti</u> | | | |
| 2.6.5 | 16 x 100mm High skirtings including quadrant bead, plugged A : 37 B : 197 C : 0 D : 0 E : 0 F : 0 G : 0 H : 72 | m | 306 | |
| | <u>DOORS, ETC.</u> | | | |
| | Carried forward | | R | |
| | Bill No. 6 | | | |
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| | Prepared By SIST Consortium | | | |

Brought forward

Semi-solid flush doors with 3,2mm plain (to receive primer and paint, measured elsewhere) hardboard covering on both sides, hung to steel frames

No

10

Double sided framed, braced and ledged hardwood doors including saligna weather bar at bottom (to receive varnish, measured elsewhere), hung to steel frames

No

2

FITTINGS

GRANITE COUNTER TOPS, ETC

No

2

| | | | |
|-------|-------|-------|-------|
| A : 2 | B : 0 | C : 0 | D : 0 |
| E : 0 | F : 0 | G : 0 | H : 0 |

COUNTER TOPS AND CUPBOARDS

Carried forward

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|--|---|----|---|---|
| | <u>32mm Thick heavy duty "Formica" or similar and equally approved worktop with a beveled front edge including 80mm Diameter support post fixed to floor and counter top, complete with counter top fixed and sealed to brick walls by specialists</u> | | | |
| 2.6.9 | 1598mm long x 600mm wide x 850mm High kitchen cupboards (granite elsewhere measured) floor unit in accordance with the Architect's drawing no. GA-002 A : 0 B : 1 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 1 | |
| 2.6.10 | 2441mm long x 600mm wide x 850mm High kitchen cupboards (granite elsewhere measured) floor unit in accordance with the Architect's drawing no. GA-002 A : 0 B : 1 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 1 | |
| 2.6.11 | 3440mm long x 600mm wide x 850mm High kitchen cupboards (granite elsewhere measured) floor unit in accordance with the Architect's drawing no. GA-006 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 1 | No | 1 | |
| 2.6.12 | 2280mm long x 600mm wide x 900mm High cleaner's store worktops in accordance with the Architect's drawing no. GA-006 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 1 | No | 1 | |
| 2.6.13 | L-shaped 6785mm long x 600mm wide x 900mm High store 01 and 02 worktops in accordance with the Architect's drawing no. GA-002 A : 0 B : 1 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 1 | |
| Carried Forward to Sectional Summary: | | | | R |
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BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| Item No | Description | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 7</u></p> <p><u>CEILINGS & PARTITIONS (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Pricing of Bills</u></p> <p>Tenderers are advised to inspect the drawings issued with this enquiry and to satisfy themselves as to the nature and requirements of the contract. No extras will be allowed due to the Contractor's failure in this respect.</p> <p>Quantities contained in these Bills of Quantities are only indicative of the actual final quantities required and shall not be used for ordering purposes.</p> <p>The descriptions contained in these Bills of Quantities are intended as a means of identifying the various facets of the work. Tenderers shall allow for all costs in connection with the various items taking full cognizance of drawings, schedule of finishes and the Bills of Quantities descriptions.</p> <p>Final measurement shall be made from construction drawings or from measurements taken on site.</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.</p> <p><u>Ceilings</u></p> <p>All units shall be readily removable from either side without disturbing adjacent units.</p> <p>Unless otherwise described ceilings shall be deemed to be horizontal.</p> | | | |
| | Carried forward | | R | |
| | <p>Bill No. 7</p> <p>CEILINGS (PROVISIONAL)</p> <p>PRASA</p> <p>Prepared By SIST Consortium</p> | | | |

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| Brought forward | R |
| <p><u>Proprietary suspended ceilings</u></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations.</p> <p>Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof).</p> <p><u>Flush plastered gypsum plasterboard suspended ceilings</u></p> <p>Ceilings shall comprise 9mm and 12mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface.</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood.</p> <p>The tenderers are to allow for a continuous corner bead edge trim to the exposed plasterboard edges.</p> <p><u>Flush plastered gypsum plasterboard suspended bulkheads</u></p> <p>Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer.</p> | |
| Carried forward | R |
| <p>Bill No. 7 CEILINGS (PROVISIONAL) PRASA Prepared By SIST Consortium</p> | |

| Brought forward | | | | R |
|---|--|----|-----|---|
| <p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc.</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121.</p> <p><u>INSULATION, ETC</u></p> <p><u>Fibreglass reinforced insulation</u></p> | | | | |
| 2.7.1 | <p>125mm Thick fibreglass mineral wool reinforced insulation blanket, closely fitted with ends butted firmly laid loose on top of suspended ceilings, nailed up ceilings, etc.</p> <p>A : 215 B : 37 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 82</p> | m2 | 334 | |
| <p><u>SUSPENDED CEILINGS</u></p> <p><u>600 x 600 x 5mm pre-painted acoustic panels on exposed suspension grid system including hangers, necessary hold-down clips and wedges, etc</u></p> | | | | |
| 2.7.2 | <p>Ceilings suspended not exceeding 1m below timber trusses</p> <p>A : 33 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> | m2 | 33 | |
| <p><u>1200 x 600 x 15mm pre-painted acoustic panels on exposed suspension grid system including hangers, necessary hold-down clips and wedges, etc</u></p> | | | | |
| 2.7.3 | <p>Ceilings suspended not exceeding 1m below timber trusses</p> <p>A : 133 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> | m2 | 133 | |
| <p><u>GYPSUM CEILINGS</u></p> | | | | |
| Carried forward | | | | R |
| <p>Bill No. 7 CEILINGS (PROVISIONAL) PRASA Prepared By SIST Consortium</p> | | | | |

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| | Brought forward | | | R |
| | <u>12.5mm Vinyl Faced Gypsum Ceiling Panels, face-covered with white embossed vinyl, size 1200 x 600mm, laid on fire rated Cliq system S3 exposed demountable suspension system including galvanised main tees, cross tees, etc., all suspended with galvanised hangers at centres not exceeding 1200mm, with ceiling perimeter finished with Shadowline W-trim plugged at 200mm centres, and all installed to manufacturer's instructions</u> | | | |
| 2.7.4 | Ceilings including standard steel brandering at 450mm centres in one direction only, joined with joiner sections and hung with suspension brackets including standard steel perimeter angles fixed to walls etc A : 49 B : 37 C : 0 D : 0 E : 0 F : 0 G : 0 H : 82 | m2 | 168 | |
| 2.7.5 | Extra over ceiling for 600 x 600mm trap door including rebated framing cross branders covered with ceiling board and fitted flush in opening A : 2 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 2 | |
| | <u>CORNICE</u> | | | |
| | <u>Gypsum plasterboard cornices</u> | | | |
| 2.7.6 | 65mm Coved cornices A : 132 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 115 | m | 247 | |
| | <u>Shadow line</u> | | | |
| 2.7.7 | 25 x 25mm Shadowline angle cornice "L" trim, to match tee grid between suspended ceiling and wall A : 203 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m | 203 | |
| | Carried Forward to Sectional Summary: | | | R |
| | Bill No. 7 CEILINGS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | |

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| Item No | Description | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION NO. 2</u> | | | |
| | <u>BILL NO. 8</u> | | | |
| | <u>IRONMONGERY (PROVISIONAL)</u> | | | |
| | <u>Note: All ironmongery shall be for heavy duty use and must be in anodized aluminium or stainless steel</u> | | | |
| | <u>HINGES</u> | | | |
| 2.8.1 | 100 x 75 x 3mm Stainless steel ball bearing butt hinge A : 3 B : 6 C : 0 D : 0 E : 0 F : 0 G : 0 H : 27 | No | 36 | |
| | <u>LOCKS</u> | | | |
| 2.8.2 | Four lever mortice lockset with stainless steel strike plate A : 1 B : 2 C : 0 D : 0 E : 0 F : 0 G : 0 H : 9 | No | 12 | |
| | <u>HANDLES</u> | | | |
| 2.8.3 | Dove pull handle with 152 x 152mm Backplate screwed onto door panel A : 1.0 B : 2.0 C : 0.0 D : 0.0 E : 0.0 F : 0.0 G : 0.0 H : 9.0 | Pairs | 12.0 | |
| | <u>KICK PLATES & PUSH PLATES</u> | | | |
| 2.8.4 | Stainless steel kick plate size 300 x 800 x 1.2mm Thick A : 2 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 2 | |
| | <u>DOOR CLOSERS</u> | | | |
| 2.8.5 | Cam motion door closer A : 2 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 2 | |
| | Carried forward | | | |
| | Bill No. 8 | | | |
| | IRONMONGERY (PROVISIONAL) | | | |
| | PRASA | | | |
| | Prepared By SIST Consortium | | | |
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SUNDRIES

| | | | |
|-------|--|----|----|
| 2.8.6 | Brushed stainless steel floor door stop with rubber surround | No | 12 |
| | A : 1 B : 2 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 9 | | |

| | | | |
|-------|---|----|----|
| 2.8.7 | Rubber tipped hat and coat hook | No | 11 |
| | A : 11 B : 0 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

WASTE BINS

| | | | |
|-------|--|----|---|
| 2.8.8 | Steel litter bin size 400mm Ø x 750mm high /72-litre capacity with steel ash tray, galvanised with a polyurethane paint. | No | 8 |
| | A : 0 B : 0 C : 8 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 0 | | |

BATHROOM FITTINGS

| | | | |
|-------|---|----|----|
| 2.8.9 | Satin stainless steel soap dispensers with a replaceable and refillable 1 litre container, cylinder lock, plugged and screwed to the wall with stainless steel screws | No | 10 |
| | A : 6 B : 3 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 1 | | |

| | | | |
|--------|---|----|----|
| 2.8.10 | Stainless steel jumbo toilet roll holders with refill indicator and cylinder lock, plugged and screwed to the wall with stainless steel screws. | No | 12 |
| | A : 5 B : 2 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 5 | | |

| | | | |
|--------|---|----|---|
| 2.8.11 | Bathroom Butler Paraplegic Rails flush valve grab rail (code: GRFV01B) or equal approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws. | No | 2 |
| | A : 1 B : 0 C : 0 D : 0 | | |
| | E : 0 F : 0 G : 0 H : 1 | | |

Carried forward

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2.8.12 Bathroom Butler Paraplegic Rails dog leg grab rail with 3 supports (code: GRDG03B) or equal approved with brushed grade 304 stainless steel finish, overall size 750 x 750mm, plugged and screwed to wall with stainless steel screws.

No

2

A : 1 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 1

2.8.13 Satin stainless steel sanitary towel disposal bins with capacity of min10 litres, free standing, or wall mounted (plugged and screwed to the wall with stainless steel screws)

No

8

A : 6 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 2

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| Item No | Description | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>SECTION NO. 2</u> | | | |
| | <u>BILL NO. 9</u> | | | |
| | <u>METALWORK (PROVISIONAL)</u> | | | |
| | <u>STAINLESS STEEL HANDRAILS</u> | | | |
| | <u>Welded handrails to stainless steel base plate</u> | | | |
| 2.9.1 | 38mm diameter x 15000mm long stainless steel handrail fixed to brickwork as per Architect's drawing - Holding Cell | No | 2 | |
| | A : 2 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | | | |
| | <u>WELDED GALVANISED STEEL SCREENS, GATES, ETC.</u> | | | |
| | <u>Screens and gates</u> | | | |
| 2.9.2 | Single gate size 900 x 2100mm high of 60 x 40 x 2mm Mild steel rods at 110mm centres and 40 x 6mm horizontal supports with 20mm holes for vertical rods fixed onto 50 x 50 x 3mm Angle iron frame with 50 x 50mm Lugs welded on at 450mm centres and bolted to reveal with 10mm Diameter rawl bolts fixed to walls with bolts and lugs including opening for deadbolt - as per door schedule (All Buildings) | No | 1 | |
| | A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | | | |
| | <u>SUNDRY STAINLESS STEELWORK</u> | | | |
| | <u>HOT DIPPED GALVANISED MILD STEEL DOOR FRAMES</u> | | | |
| | <u>1,6mm Double rebated pressed steel door frames suitable for one brick walls</u> | | | |
| 2.9.3 | Frame for door type A 813 x 2032mm high | No | 20 | |
| | A : 1 B : 2 C : 0 D : 0 E : 0 F : 0 G : 0 H : 17 | | | |
| | <u>GALVANISED STEEL WINDOWS, DOORS, ETC</u> | | | |
| | Carried forward | | R | |
| | Bill No. 9 | | | |
| | METALWORK (PROVISIONAL) | | | |
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| | <u>Standard galvanised mild steel windows with galvanised mild steel burglar bars to fixed panes and opening sections (burglar bars to be factory fitted to the window frames prior to galvanising), including all window ironmongery in accordance with the Architect's window schedules</u> | | | |
| 2.9.4 | Window size 400 x 600mm high A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 1 | |
| 2.9.5 | Door size 1600 x 2032mm high including vent louvres A : 0 B : 2 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 2 | |
| | <u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u> | | | |
| | <u>Strong room doors, etc.</u> | | | |
| 2.9.6 | 'Category 2' or equal and approved 30mm thick pre-painted strong room door, approximate overall size 830 x 1932mm high including frame, all standard ironmongery, etc. supplied and fixed in accordance with the manufacturer's instructions all to the approval of the Architect A : 0 B : 1 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 1 | |
| | <u>BULLET PROOF WINDOWS</u> | | | |
| | <u>Level G3 bullet resistant glazed & natural anodised aluminium transaction window with 30mm deep stainless steel dish tray and speech transfer posts (interior applications only)</u> | | | |
| 2.9.7 | Transaction window overall size 915 x 600mm high A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 1 | |
| | Carried Forward to Sectional Summary: | | | R |
| | Bill No. 9 METALWORK (PROVISIONAL) PRASA Prepared By SIST Consortium | | | |

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| Item No | Description | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
| | <u>SECTION NO. 2</u> <u>BILL NO. 10</u> <u>PLASTERING (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>GENERAL</u> V-Joints or the like between brick and concrete surfaces shall be deemed to be included in the external plaster on walls rate. | | | | |
| | <u>SCREEDS</u> <u>Screeds steel trowelled on concrete</u> | | | | |
| 2.10.1 | 30mm Thick on floors A : 73 B : 183 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m2 | 256 | | |
| | <u>INTERNAL PLASTER</u> <u>Cement plaster on brickwork, blockwork or concrete finished with a steel trowel</u> | | | | |
| 2.10.2 | On soffits of slabs and beams A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m2 | 1 | | |
| 2.10.3 | On raking soffits of stairs A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m2 | 1 | | |
| 2.10.4 | On narrow widths A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m2 | 1 | | |
| 2.10.5 | On raking and stepped edge of stairs 350mm extreme width A : 6 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m | 6 | | |
| | <p style="text-align: right;">Carried Forward to Sectional Summary:</p> Bill No. 10 PLASTERING (PROVISIONAL) PRASA Prepared By SIST Consortium | | | R | |

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| Item No | Description | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 11</u></p> <p><u>TILING (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Site Visit</u></p> <p>The tenderer is advised to visit the site and acquaint themselves fully as to the conditions on site and working times as no claims in this regard will be entertained.</p> <p><u>Pricing of Bills</u></p> <p>Tenderer is to allow an adequate wastage factor when pricing. Any deviation of the quantities as a result of wastage is to be factored into the rates.</p> <p>Tenderer is advised to inspect the drawings issued with this enquiry and to satisfy themselves as to the nature and requirements of the contract. No extras will be allowed due to the Contractor's failure in this respect.</p> <p>Quantities contained in these Bills of Quantities are only indicative of the actual final quantities required and shall not be used for ordering purposes.</p> <p>The descriptions contained in these Bills of Quantities are intended as a means of identifying the various facets of the work. Tenderer shall allow for all costs in connection with the various items taking full cognizance of drawings, schedule of finishes and the Bills of Quantities descriptions.</p> <p>Final measurement shall be made from construction drawings or from measurements taken on site.</p> <p><u>Tile Specifications</u></p> <p>Tenderer is advised that the skirting is to be cut under a controlled factory environment to ensure the quality of the cut is even across all individual sections.</p> <p><u>WALL TILING</u></p> | | | |
| | Carried forward | | R | |
| | <p>Bill No. 11</p> <p>TILING (PROVISIONAL)</p> <p>PRASA</p> <p>Prepared By SIST Consortium</p> | | | |

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|--------|--|----|-----|---|
| | Brought forward | | | R |
| | <u>600 x 600 x 10mm Full bodied porcelain tiles fixed to internal floor screed with tile adhesive (elsewhere specified) mixed with bonding liquid in lieu of water with diagonal joints continuous in both directions and grouted with tile grout, excess grout on the surface to be cleaned with water as work proceeds (Allow PC of R120/m² in the rate for supply and delivery to site, excluding VAT)</u> | | | |
| 2.11.1 | On walls | m2 | 326 | |
| | A : 124 B : 95 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 108 | | | |
| | <u>600 x 600 x 10mm Full bodied porcelain tiles fixed to internal floor screed with tile adhesive (elsewhere specified) mixed with bonding liquid in lieu of water with diagonal joints continuous in both directions and grouted with tile grout, excess grout on the surface to be cleaned with water as work proceeds (Allow PC of R120/m² in the rate for supply and delivery to site, excluding VAT)</u> | | | |
| 2.11.2 | To floors | m2 | 319 | |
| | A : 69 B : 183 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 67 | | | |
| 2.11.3 | Circular cutting | m | 80 | |
| | A : 17 B : 46 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 17 | | | |
| | <u>SUNDRIES</u> | | | |
| | <u>Supply and install Aluminium edge trim</u> | | | |
| 2.11.4 | 12mm Aluminium straight edge trim fixed vertically to edges and ends of wall tiles | m | 450 | |
| | A : 0 B : 335 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 115 | | | |
| | Carried Forward to Sectional Summary: | | | R |
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| Item No | Description | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>SECTION NO. 2</u> | | | |
| | <u>BILL NO. 12</u> | | | |
| | <u>PLUMBING AND DRAINAGE</u> | | | |
| | <u>(PROVISIONAL)</u> | | | |
| | <u>PLUMBING</u> | | | |
| | NOTE: Prices for sanitary fittings fixed to walls or abutting walls, etc. shall include for sealing against walls with silicone sealing compound. This shall apply to wash hand basins, sinks and drainers, urinals, WC cisterns, wash troughs, shower trays and the like | | | |
| | <u>RAINWATER DISPOSAL</u> | | | |
| | <u>'Seamless' aluminium gutters</u> | | | |
| 2.12.1 | OGEE 125 x 75mm 0.6mm Seamless aluminium proprietary eaves gutters with baked enamel finished fixed with concealed brackets | m | 127 | |
| | A : 23 B : 64 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 39 | | | |
| 2.12.2 | Extra over eaves gutter for stopped ends | No | 16 | |
| | A : 4 B : 4 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 8 | | | |
| 2.12.3 | Extra over eaves gutter for drop box suitable 155 x 100mm box gutter | No | 25 | |
| | A : 6 B : 7 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 12 | | | |
| | <u>Aluminium downpipes</u> | | | |
| 2.12.4 | 100 x 75mm 0.6mm Fluted aluminium downpipes with baked enamel finish | m | 88 | |
| | A : 21 B : 25 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 42 | | | |
| 2.12.5 | Extra over rainwater downpipes for bends | No | 50 | |
| | A : 12 B : 14 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 24 | | | |
| | Carried forward | | | |
| | Bill No. 12 | | | |
| | PLUMBING AND DRAINAGE (PROVISIONAL) | | | |
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| | | | Brought forward | | R |
| 2.12.6 | Extra over rainwater downpipes for shoes | No | 25 | | |
| | A : 6 B : 7 C : 0 D : 0 | | | | |
| | E : 0 F : 0 G : 0 H : 12 | | | | |
| <u>SANITARY FITTINGS</u> | | | | | |
| <u>Public Ablutions - Wash hand Basin</u> | | | | | |
| 2.12.7 | Size 420 x 420mm fitted into opening in granite vanity top (elsewhere specified) and sealed with silicone sealant where basin rim meets vanity top. To be used in conjunction with wall mounted push on demand tap as specified V05-V06. | No | 2 | | |
| | A : 0 B : 2 C : 0 D : 0 | | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | | |
| 2.12.8 | Size 510 x 405mm with one taphole including integrated overflow and chainstay hole bolted to wall with two x 10mm bolts and including Universal half pedestal with hanger springs and sealed with silicone sealant where basin meets wall. To be used in conjunction with paraplegic tap V07 as specified. | No | 1 | | |
| | A : 0 B : 0 C : 0 D : 0 | | | | |
| | E : 0 F : 0 G : 0 H : 1 | | | | |
| <u>Public Ablutions - Water closet</u> | | | | | |
| 2.12.9 | Wall hung closed rim pan with soft close seat, including pan fixations, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Adjustable height options. Concealed cistern to be used with this pan. Pan Weight 23kg - width 370mm - height 420mm - pan flush volume 3/6 Lt, 10-year warranty on the ceramic. | No | 2 | | |
| | A : 0 B : 2 C : 0 D : 0 | | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | | |
| | | | Carried forward | | R |
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| | Brought forward | | | R |
|--|---|----|---|---|
| 2.12.10 | <p>Wall hung closed rim pan with soft close seat, including pan fixations, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Adjustable height options. Concealed cistern to be used with this pan. Pan Weight 23kg - width 370mm - height 420mm - pan flush volume 3/6 Lt, 10 year warranty on the ceramic.- Paraplegic</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 1</p> <p><u>Staff - Ablutions</u></p> | No | 1 | |
| 2.12.11 | <p>Size 420 x 420mm fitted into opening in granite vanity top (elsewhere specified) and sealed with silicone sealant where basin rim meets vanity top. To be used in conjunction with wall mounted push on demand tap as specified V05-V06.</p> <p>A : 4 B : 1 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p><u>Staff Ablutions - Water closet</u></p> | No | 5 | |
| 2.12.12 | <p>Wall hung closed rim pan with soft close seat, including pan fixations, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Adjustable height options. Concealed cistern to be used with this pan. Pan Weight 23kg - width 370mm - height 420mm - pan flush volume 3/6 Lt, 10 year warranty on the ceramic.</p> <p>A : 4 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 4</p> <p><u>Holding Cell - Ablution</u></p> | No | 8 | |
| 2.12.13 | <p>Rounded wall-hung basin size 510 x 405mm colour: white with three semi-punched tapholes, integrated overflow, and chain stay hole through the centre semi-punched tapholes.</p> <p>A : 1 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> | No | 1 | |
| | Carried forward | | | R |
| Bill No. 12 PLUMBING AND DRAINAGE (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

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|---------|--|----|---|---|
| 2.12.14 | <p>Wall mounted top inlet Urinal, including kit, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Weight 9kg - width 300mm - length 460mm. 10 year warranty on the ceramic.</p> <p>A : 3 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0</p> | No | 3 | |
| 2.12.15 | <p>Vitreous china back inlet, comprising 90° wall hung rim pan compatible with back inlet exposed flush valve and matching 6/3 litre top dual flush cistern including lid and fitments, flush valve and heavy duty double flap toilet seat.</p> <p>A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0</p> | No | 1 | |
| 2.12.16 | <p>Wash Hand Basin with wall mounted push on demand tap - Vandal resistant</p> <p>A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0</p> | No | 1 | |
| 2.12.17 | <p>Standard Universal Vandal Resistant WC, 390mm (w) x 480mm (d) x 410mm (h). Installation as per manufacturer's specification.</p> <p>A : 0 B : 1 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0</p> | No | 1 | |
| | <u>Stainless steel</u> | | | |
| 2.12.18 | <p>Grade 304 18/10 polished stainless steel single end bowl inset sink, overall size 800 x 460mm with one 340 x 370 x 140mm deep bowl, with integrated overflow fitted onto cupboard (elsewhere specified) including trap (trap elsewhere specified) with 38mm waste fitting</p> <p>A : 2 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 1</p> | No | 3 | |
| | <u>Precast concrete wash trough</u> | | | |
| 2.12.19 | <p>Single precast concrete wash trough, 670mm x 500mm x 340mm deep with reinforced concrete pedestals (LI)</p> <p>A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 1</p> | No | 1 | |
| | <u>SANITARY PLUMBING</u> | | | |
| | Carried forward | | | R |
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|--|---|-------|-------|-------|----|--|---|
| 2.12.28 | 50mm Access bend | | | No | 10 | | |
| | A : 6 | B : 3 | C : 0 | D : 0 | | | |
| | E : 0 | F : 0 | G : 0 | H : 1 | | | |
| 2.12.29 | 110mm Access bend | | | No | 13 | | |
| | A : 5 | B : 3 | C : 0 | D : 0 | | | |
| | E : 0 | F : 0 | G : 0 | H : 5 | | | |
| 2.12.30 | 50mm Junction | | | No | 10 | | |
| | A : 6 | B : 3 | C : 0 | D : 0 | | | |
| | E : 0 | F : 0 | G : 0 | H : 1 | | | |
| 2.12.31 | 110mm Junction | | | No | 13 | | |
| | A : 5 | B : 3 | C : 0 | D : 0 | | | |
| | E : 0 | F : 0 | G : 0 | H : 5 | | | |
| 2.12.32 | 110mm Reducing junction | | | No | 13 | | |
| | A : 5 | B : 3 | C : 0 | D : 0 | | | |
| | E : 0 | F : 0 | G : 0 | H : 5 | | | |
| 2.12.33 | 110mm Pan connector | | | No | 13 | | |
| | A : 5 | B : 3 | C : 0 | D : 0 | | | |
| | E : 0 | F : 0 | G : 0 | H : 5 | | | |
| <u>TRAPS ETC</u> | | | | | | | |
| 2.12.34 | 40mm 360 CP bottle trap | | | No | 13 | | |
| | A : 9 | B : 3 | C : 0 | D : 0 | | | |
| | E : 0 | F : 0 | G : 0 | H : 1 | | | |
| <u>WASTE UNIONS, ETC.</u> | | | | | | | |
| 2.12.35 | 32mm chrome plated basin waste with 62mm diameter flange, 80mm long shank and plug. | | | No | 2 | | |
| | A : 1 | B : 0 | C : 0 | D : 0 | | | |
| | E : 0 | F : 0 | G : 0 | H : 1 | | | |
| 2.12.36 | 40mm chrome plated waste with anti-theft plug and spindle. | | | No | 8 | | |
| | A : 5 | B : 3 | C : 0 | D : 0 | | | |
| | E : 0 | F : 0 | G : 0 | H : 0 | | | |
| Carried forward | | | | | | | R |
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| Brought forward | | | | R |
|--|---|----|----|---|
| <u>TAPS, VALVES, ETC</u> | | | | |
| 2.12.37 | Fullway isolating ball valves with plastic coated plated steel lever handle | No | 13 | |
| | A : 5 B : 3 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 5 | | | |
| 2.12.38 | Fullway isolating ball valves with plastic coated plated steel lever handle | No | 5 | |
| | A : 4 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 1 | | | |
| 2.12.39 | 15mm Chromium plated metering pillar tap with non-hold open feature and flow controller | No | 8 | |
| | A : 5 B : 3 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | |
| 2.12.40 | 15mm Chromium plated elbow action pillartap | No | 2 | |
| | A : 1 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 1 | | | |
| 2.12.41 | Standard flushmaster toilet flushvalve concealed type including back entry, econoflush push button assembly with push rod, rubber pan connectore, integral vacuum breaker and non-hold open feature | No | 11 | |
| | A : 4 B : 3 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 4 | | | |
| 2.12.42 | CP Urinal flushvalve concealed type including back entry, econoflush push button assembly with push rod, rubber pan connectore, integral vacuum breaker and non-hold open feature | No | 3 | |
| | A : 3 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | |
| 2.12.43 | C.P junior flushmaster exposed flushvalve with top entry flushpipe compression pan connector and wall flange rubber seat buffer and integral vacuum breaker | No | 2 | |
| | A : 1 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 1 | | | |
| <u>WATER SUPPLIES</u> | | | | |
| Carried forward | | | | R |
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|---------|---|-------|-------|-------|----|--|---|--|
| | Brought forward | | | | | | R | |
| | <u>Copper piping with capillary or compression type fittings (Class 460/1 above ground and Class 460/2 under ground or in chase)</u> | | | | | | | |
| 2.12.44 | 15mm Pipes chased into brick walls | | | m | 26 | | | |
| | A : 18 | B : 6 | C : 0 | D : 0 | | | | |
| | E : 0 | F : 0 | G : 0 | H : 2 | | | | |
| 2.12.45 | 22mm Pipes | | | m | 26 | | | |
| | A : 18 | B : 6 | C : 0 | D : 0 | | | | |
| | E : 0 | F : 0 | G : 0 | H : 2 | | | | |
| 2.12.46 | 22mm Pipes chased into brick walls | | | m | 26 | | | |
| | A : 18 | B : 6 | C : 0 | D : 0 | | | | |
| | E : 0 | F : 0 | G : 0 | H : 2 | | | | |
| 2.12.47 | 28mm Pipes | | | m | 36 | | | |
| | A : 24 | B : 9 | C : 0 | D : 0 | | | | |
| | E : 0 | F : 0 | G : 0 | H : 3 | | | | |
| | <u>Extra over class 460/1 copper pipes for capillary fittings, angle and isolation valves and hose connectors</u> | | | | | | | |
| 2.12.48 | 15mm Fittings | | | No | 36 | | | |
| | A : 24 | B : 9 | C : 0 | D : 0 | | | | |
| | E : 0 | F : 0 | G : 0 | H : 3 | | | | |
| 2.12.49 | 22mm Fittings | | | No | 26 | | | |
| | A : 18 | B : 6 | C : 0 | D : 0 | | | | |
| | E : 0 | F : 0 | G : 0 | H : 2 | | | | |
| 2.12.50 | 28mm Fittings | | | No | 26 | | | |
| | A : 18 | B : 6 | C : 0 | D : 0 | | | | |
| | E : 0 | F : 0 | G : 0 | H : 2 | | | | |
| | <u>Extra over 460/1 copper pipes for brass compression fittings</u> | | | | | | | |
| 2.12.51 | 15mm Fittings | | | No | 26 | | | |
| | A : 18 | B : 6 | C : 0 | D : 0 | | | | |
| | E : 0 | F : 0 | G : 0 | H : 2 | | | | |
| | Carried forward | | | | | | R | |
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| Brought forward | | | | | | R |
|---|-----------------------------------|-------|-------|-------|----|---|
| 2.12.52 | 22mm Fittings | | | No | 23 | |
| | A : 15 | B : 6 | C : 0 | D : 0 | | |
| | E : 0 | F : 0 | G : 0 | H : 2 | | |
| 2.12.53 | 28mm Fittings | | | No | 23 | |
| | A : 15 | B : 6 | C : 0 | D : 0 | | |
| | E : 0 | F : 0 | G : 0 | H : 2 | | |
| <u>MEPLA Piping and fittings</u> | | | | | | |
| 2.12.54 | 15mm fixed to walls, ceiling etc. | | | m | 30 | |
| | A : 30 | B : 0 | C : 0 | D : 0 | | |
| | E : 0 | F : 0 | G : 0 | H : 0 | | |
| 2.12.55 | 20mm fixed to walls, ceiling etc. | | | m | 32 | |
| | A : 32 | B : 0 | C : 0 | D : 0 | | |
| | E : 0 | F : 0 | G : 0 | H : 0 | | |
| 2.12.56 | 25mm fixed to walls, ceiling etc. | | | m | 18 | |
| | A : 18 | B : 0 | C : 0 | D : 0 | | |
| | E : 0 | F : 0 | G : 0 | H : 0 | | |
| 2.12.57 | 32mm fixed to walls, ceiling etc. | | | m | 12 | |
| | A : 12 | B : 0 | C : 0 | D : 0 | | |
| | E : 0 | F : 0 | G : 0 | H : 0 | | |
| 2.12.58 | 40mm fixed to walls, ceiling etc. | | | m | 12 | |
| | A : 12 | B : 0 | C : 0 | D : 0 | | |
| | E : 0 | F : 0 | G : 0 | H : 0 | | |
| 2.12.59 | 50mm fixed to walls, ceiling etc. | | | m | 14 | |
| | A : 14 | B : 0 | C : 0 | D : 0 | | |
| | E : 0 | F : 0 | G : 0 | H : 0 | | |
| <u>Extra over Mepla pipes for reducing tees, isolation valves, straight reducers, plastic pipe clamps, sealing set and mounting brackets</u> | | | | | | |
| 2.12.60 | 15mm fittings. | | | No | 12 | |
| | A : 12 | B : 0 | C : 0 | D : 0 | | |
| | E : 0 | F : 0 | G : 0 | H : 0 | | |
| Carried forward | | | | | | R |
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| | | | |
|--|---|----|----|
| | Brought forward | | R |
| 2.12.61 | 20mm fittings. A : 36 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 36 |
| 2.12.62 | 25mm fittings. A : 20 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 20 |
| 2.12.63 | 32mm fittings. A : 20 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 20 |
| 2.12.64 | 40mm fittings. A : 15 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 15 |
| 2.12.65 | 50mm Reducer A : 18 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 Pipes laid below ground including excavations, backfill, etc. complete <u>Class 12 HDPE pipes</u> | No | 18 |
| 2.12.66 | 54mm Pipe laid in and including trenches not exceeding 1m deep A : 15 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 <u>Extra over Class 12 HDPE pipes for fittings</u> | No | 15 |
| 2.12.67 | 54mm fittings A : 10 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | No | 10 |
| | Carried forward | | R |
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ELECTRIC WATER HEATERS

2.12.68 Zip stainless steel 7,5 litre Hydroboil, size 310 x 180 x 460mm high with instant boiling water, two way tap control, connected to 15mm cold water supply and 220 volt 15 amp electrical power supply, plugged and screwed to wall and fitted under 1 year guarantee.

No

1

A : 1 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0

2.12.69 150L slim line geyser complete with associated pipework, fittings, valves, pressure reducing, supports, hangers and drip tray.

No

1

A : 1 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0

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| | <u>SECTION NO. 2</u> | | | |
| | <u>BILL NO. 13</u> | | | |
| | <u>GLAZING (PROVISIONAL)</u> | | | |
| | <u>GLAZING TO WOOD/STEEL WITH PUTTY</u> | | | |
| | <u>6mm Thick obscure safety glass</u> | | | |
| 2.13.1 | Panes exceeding 0,1m ² and not exceeding 0.5m ² A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 | m2 | 1 | |
| | <u>MIRRORS, ETC</u> | | | |
| | <u>6mm 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 or concrete</u> | | | |
| 2.13.2 | Mirror 450 x 450mm high A : 6 B : 3 C : 0 D : 0 E : 0 F : 0 G : 0 H : 1 | No | 10 | |
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| | Bill No. 13 | | | |
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| | <p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 14</u></p> <p><u>PAINTWORK (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PRICING OF BILLS</u></p> <p>Tenderers are advised to inspect the drawings issued with this enquiry and to satisfy themselves as to the nature and requirements of the contract. No extras will be allowed due to the Contractor's failure in this respect.</p> <p>The Contractor shall be responsible for adequately protecting his work during installation and shall provide a suitable protective covering to be removed when so directed by the Main Contractor.</p> <p>Quantities contained in these Bills of Quantities are only indicative of the actual final quantities required and shall not be used for ordering purposes.</p> <p>The descriptions contained in these Bills of Quantities are intended as a means of identifying the various facets of the work. Tenderers shall allow for all costs in connection with the various items taking full cognizance of drawings, schedule of finishes and the Bills of Quantities descriptions.</p> <p>Final measurement shall be made from construction drawings or from measurements taken on site.</p> <p><u>PROGRAMME REQUIREMENTS</u></p> <p>Tenderers are advised to discuss their programme with the Principal Agent to ensure that no delays occur.</p> <p>Tenderers will be required to have sufficient teams on site, at all times, as to ensure that the programme dates are met. Tenderers are to allow for this in their tenders as no claim for additional teams or workmen will be entertained at a later stage.</p> <p><u>SITE REPRESENTATIVE</u></p> <p>Tenderers are to allow for a full time site representative.</p> | | | |
| | Carried forward | | R | |
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|--------|--|----|-----|---|
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| | <u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use</u> | | | |
| 2.14.3 | Fascias and barge boards, including priming metal jointing strips | m2 | 112 | |
| | A : 23 B : 48 C : 0 D : 0 E : 0 F : 0 G : 0 H : 41 | | | |
| | <u>ON METAL SURFACES</u> | | | |
| | <u>Prepare surfaces and remove all loose material, apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u> | | | |
| 2.14.4 | Door frames | m2 | 12 | |
| | A : 1 B : 2 C : 0 D : 0 E : 0 F : 0 G : 0 H : 9 | | | |
| | <u>ON WOOD SURFACES</u> | | | |
| | <u>Prepare surfaces and remove all loose material, apply one coat wood primer, one coat alkyd based universal undercoat and two coats super quality gloss paint. Colour TBC. by Architect (sand between coats)</u> | | | |
| 2.14.5 | On doors | m2 | 48 | |
| | A : 4 B : 8 C : 0 D : 0 E : 0 F : 0 G : 0 H : 36 | | | |
| 2.14.6 | Skirtings, rails, etc not exceeding 300mm girth | m | 306 | |
| | A : 37 B : 197 C : 0 D : 0 E : 0 F : 0 G : 0 H : 72 | | | |
| | <u>PAINTWORK, ETC. TO PREVIOUSLY PAINTED WORK</u> | | | |
| | <u>ON EXTERNAL FLOATED PLASTER SURFACES</u> | | | |
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Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats emulsion paint for interior use

| | | | | |
|--------|--|----|-----|--|
| 2.14.7 | Walls | m2 | 540 | |
| | A : 138 B : 240 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 162 | | | |

ON INTERNAL FLOATED PLASTER SURFACES

Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats emulsion paint for interior use

| | | | | |
|--------|--|----|-----|--|
| 2.14.8 | Walls | m2 | 792 | |
| | A : 123 B : 570 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 99 | | | |

Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats emulsion paint for interior use

ON METAL SURFACES

Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats emulsion paint for interior use

| | | | | |
|--------|--|----|---|--|
| 2.14.9 | On windows | m2 | 3 | |
| | A : 1 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 2 | | | |

| | | | | |
|---------|--|----|-----|--|
| 2.14.10 | Corrugated roofs (measured on flat) | m2 | 217 | |
| | A : 0 B : 0 C : 217 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | |

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Prepare and brush surface of structural steelwork by abrasively blast to ST 2.5 of swedish standard SIS 055900 and blast to PSH 2.4.1 as per SANS 064 code. Apply one coat of Sigma cover 630 polyamide epoxy and one coat of Sigma cover 456 polyamide epoxy to suite Prasa colours.

| | | | | |
|---------|--|----|-----|--|
| 2.14.11 | On solid steel balustrades - Bridges | m2 | 519 | |
| | A : 519 B : 0 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 0 | | | |

ON WOOD SURFACES

Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats emulsion paint for interior use

| | | | | |
|---------|--|----|-----|--|
| 2.14.12 | On doors | m2 | 132 | |
| | A : 44 B : 76 C : 0 D : 0 | | | |
| | E : 0 F : 0 G : 0 H : 12 | | | |

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| | <u>SECTION NO. 2</u> | | | |
| | <u>BILL NO. 15</u> | | | |
| | <u>BUDGETARY ALLOWANCES</u> | | | |
| | <u>(PROVISIONAL)</u> | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | <u>SIGNAGE</u> | | | |
| | <u>Signage</u> | | | |
| 2.15.1 | Provide the amount of R 50,000.00 (Fifty Thousand Rand) for the Signage | Item | | 50 000,00 |
| | A : 0.00 B : 0.00 C : 0.00 D : 1.00 | | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 0.00 | | | |
| | <u>BUILT-IN CUPBOARDS</u> | | | |
| | <u>Built-in Cupboards</u> | | | |
| 2.15.2 | Provide the amount of R 16,000.00 (Sixteen Thousand Rand) for the Built in Cupboards | Item | | 16 000,00 |
| | A : 0.00 B : 1.00 C : 0.00 D : 0.00 | | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 0.00 | | | |
| | <u>STAFF LOCKERS</u> | | | |
| | <u>Staff Lockers</u> | | | |
| 2.15.3 | Provide the amount of R 15,500.00 (Fifteen Thousand Five Hundred Rand) for Staff Lockers | Item | | 15 500,00 |
| | A : 0.00 B : 0.00 C : 0.00 D : 0.00 | | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 1.00 | | | |
| | <u>STAFF BENCHES</u> | | | |
| | <u>Staff Benches</u> | | | |
| 2.15.4 | Provide the amount of R 11,800.00 (Eleven Thousand Eight Hundred Rand) for Staff Benches | Item | | 11 800,00 |
| | A : 0.00 B : 0.00 C : 0.00 D : 0.00 | | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 1.00 | | | |
| | Carried forward | | R | |
| | Bill No. 15 | | | |
| | BUDGETARY ALLOWANCES (PROVISIONAL) | | | |
| | PRASA | | | |
| | Prepared By SIST Consortium | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

Brought forward

R

CARPORT

Carports - Staff Parking

| | | | |
|--------|---|------|-----------|
| 2.15.5 | Provide the amount of R 40,000.00 (Forty Thousand Rand) for Demolition of Existing Staff Parking Carports | Item | 40 000.00 |
| | A : 0.00 B : 0.00 C : 0.00 D : 1.00 | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 0.00 | | |

| | | | |
|--------|--|------|------------|
| 2.15.6 | Provide the amount of R 120,000.00 (One Hundred and Twenty Thousand Rand) for New Staff Parking Carports | Item | 120 000.00 |
| | A : 0.00 B : 0.00 C : 0.00 D : 1.00 | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 0.00 | | |

TICKET VERIFICATION POINT (TVP)

Ticket Verification Point

| | | | |
|--------|---|------|-----------|
| 2.15.7 | Provide the amount of R 22,200.00 (Twenty Two Thousand Two Hundred and Fifty Rand) for Demolition of Existing Ticket Verification Point | Item | 22 200.00 |
| | A : 0.00 B : 0.00 C : 0.00 D : 1.00 | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 0.00 | | |

| | | | |
|--------|---|------|-----------|
| 2.15.8 | Provide the amount of R 76,000.00 (Seventy Six Thousand Rand) for New Ticket Verification Point | Item | 76 000.00 |
| | A : 0.00 B : 0.00 C : 0.00 D : 1.00 | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 0.00 | | |

GLASS PARTITIONS

Glass Partitions - ticket office

| | | | |
|--------|--|------|----------|
| 2.15.9 | Provide the amount of R 5,695.00 (Five Thousand Six Hundred and Ninety Five Rand) for Glass Partitions | Item | 5 695.00 |
| | A : 1.00 B : 0.00 C : 0.00 D : 0.00 | | |
| | E : 0.00 F : 0.00 G : 0.00 H : 0.00 | | |

REFURBISHMENT OF EXISTING BRIDGE

Carried forward

R

Bill No. 15

BUDGETARY ALLOWANCES (PROVISIONAL)

PRASA

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BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

Brought forward

R

Refurbishment of Existing Bridge

2.15.10 Provide the amount of R 100,000.00 (One Thousand Rand) for **Refurbishment of Existing Bridge**

Item

100 000.00

A : 0.00 B : 0.00 C : 0.00 D : 1.00
E : 0.00 F : 0.00 G : 0.00 H : 0.00

Carried Forward to Sectional Summary:

R

Bill No. 15
BUDGETARY ALLOWANCES (PROVISIONAL)
PRASA
Prepared By SIST Consortium

**BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1**

| Bill No | <u>SUMMARY</u> | Page No | Amount |
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| 2.7 | CEILINGS (PROVISIONAL) | 50 | |
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| Carried to Final Summary | | | R |
| PRASA Prepared By SIST Consortium | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| Item No | Description | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
| | <u>SECTION NO.3</u> | | | | |
| | <u>BILL NO. 1</u> | | | | |
| | <u>EXTERNAL WORKS</u> | | | | |
| | <u>GENERAL SITEWORKS</u> | | | | |
| | <u>Site clearance</u> | | | | |
| 3.1.1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc. | m2 | 1 000 | | |
| 3.1.2 | Stripping average 150mm thick layer of top soil and stockpiling on site | m2 | 1 000 | | |
| | <u>REMOVAL OF TREES ETC</u> | | | | |
| | <u>Taking out and removing, grubbing up roots and filling in holes</u> | | | | |
| 3.1.3 | Tree stump exceeding 200mm and not exceeding 500mm girth | No | 10 | | |
| | <u>FILLING ETC</u> | | | | |
| | <u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u> | | | | |
| 3.1.4 | Backfilling to trenches | m3 | 50 | | |
| | <u>COMPACTION</u> | | | | |
| | <u>Compaction of surfaces</u> | | | | |
| 3.1.5 | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density. | m2 | 100 | | |
| | Carried Forward to Sectional Summary: | | | | |
| | Bill No. 1 | | | | |
| | GENERAL SITEWORKS (PROVISIONAL) | | | | |
| | PRASA | | | | |
| | Prepared By SIST Consortium | | | | |

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BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
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| Item No | Description | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
| | <u>SECTION NO.3</u> | | | | |
| | <u>BILL NO. 2</u> | | | | |
| | <u>EXTERNAL WORKS</u> | | | | |
| | <u>SOIL DRAINAGE</u> | | | | |
| | <u>Heavy duty (Class 34) uPVC sewer and drain pipes</u> | | | | |
| 3.2.1 | 50mm Pipes laid in and including trenches exceeding not exceeding 1m deep | m | 38 | | |
| 3.2.2 | 110mm Pipes laid in and including trenches not exceeding 1m deep | m | 69 | | |
| 3.2.3 | 110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep | m | 30 | | |
| 3.2.4 | 110mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep | m | 13 | | |
| | <u>Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings</u> | | | | |
| 3.2.5 | 50mm Bend (90)° | No | 10 | | |
| 3.2.6 | 110mm Bend (90)° | No | 9 | | |
| 3.2.7 | 50mm Tee junction (90°) | No | 15 | | |
| 3.2.8 | 110mm Tee junction (90°) | No | 2 | | |
| 3.2.9 | 110mm Junction | No | 7 | | |
| 3.2.10 | 110mm Rodding eye | No | 10 | | |
| | <u>Extra over all excavations for excavation in</u> | | | | |
| 3.2.11 | Intermediate material | m3 | 15 | | |
| 3.2.12 | Hard rock | m3 | 12 | | |
| | Carried forward | | | R | |
| | Bill No. 2 | | | | |
| | SOIL DRAINAGE (PROVISIONAL) | | | | |
| | PRASA | | | | |
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BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| Brought forward | | | | R |
|--|---|----|------|---|
| <u>INSPECTION CHAMBER</u> | | | | |
| Tenderers are to price all items in this section of work as per Engineers drawing no: 01-2119-110-03/04 Rev A | | | | |
| <u>Excavate and build 1000mm diameter circular manhole formed from precast concrete splay rebated rings not less than 65mm thick and jointed with suitable watertight joint, built off and including 20Mpa/19mm 250mm thick concrete base and fitted with precast cover and frame (elsewhere) benching up in 20MPa/8mm concrete and finished smooth in 1:1 cement plaster around channels</u> | | | | |
| 3.2.13 | Depth exceeding not exceeding 1m deep internally | No | 2 | |
| 3.2.14 | Depth exceeding 1m and not exceeding 2m deep internally | No | 1 | |
| 3.2.15 | Depth exceeding 2m and not exceeding 3m deep internally | No | 2 | |
| <u>SUNDRIES</u> | | | | |
| <u>Altering Existing Manholes</u> | | | | |
| 3.2.16 | Raising or lowering of existing manholes | No | 2 | |
| <u>Municipal connection points</u> | | | | |
| 3.2.17 | Cut into existing sewer manhole for new 110mm pipe not exceeding 4m deep, including making good and all connections necessary | No | 1 | |
| <u>Testing</u> | | | | |
| 3.2.18 | Testing soil drainage system | | Item | |
| Carried Forward to Sectional Summary: | | | | R |
| Bill No. 2 | | | | |
| SOIL DRAINAGE (PROVISIONAL) | | | | |
| PRASA | | | | |
| Prepared By SIST Consortium | | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| Item No | Description | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
| | <u>SECTION NO.3</u> | | | | |
| | <u>BILL NO. 3</u> | | | | |
| | <u>EXTERNAL WORKS</u> | | | | |
| | <u>STORMWATER DRAINAGE</u> | | | | |
| | <u>Class 100D SS concrete pipes with spigot and socket joints with rubber rings</u> | | | | |
| 3.3.1 | 300mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep | m | 90 | | |
| 3.3.2 | 600mm Pipes laid in and including trenches exceeding 2m not exceeding 3m deep | m | 140 | | |
| | <u>MANHOLES</u> | | | | |
| | <u>Excavate in earth and build 805 x 805mm size internally formed from one brick 14Mpa NFP clay bricks walls cement plastered to internal face including 25Mpa/19mm 250mm thick concrete with mesh ref 245 in base and cover slabs, cover slab to have recessed opening to suit 1200 x 1200mm cast iron manhole cover frame with 230 x 230mm Grid inlet (cover, grating and frame measured elsewhere) benching up in 20MPa/8mm concrete and finished smooth in 1:1 cement plaster around channels</u> | | | | |
| 3.3.3 | Not exceeding 1m deep | No | 5 | | |
| 3.3.4 | Exceeding 1m but not exceeding 2m deep | No | 3 | | |
| 3.3.5 | Exceeding 2m but not exceeding 3m deep | No | 1 | | |
| | <u>CATCHPIT</u> | | | | |
| 3.3.6 | Excavate for and build catchpit with one brick sides fitted with 520mm x 790mm x 127.4kg cast iron heavy duty dished grating and frame, size internally 480mm x 795mm and not exceeding 1m deep. | No | 5 | | |
| | Carried forward | | | | |
| | Bill No. 3 | | | | |
| | STORMWATER DRAINAGE (PROVISIONAL) | | | | |
| | PRASA | | | | |
| | Prepared By SIST Consortium | | | | |

R

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| | Brought forward | | | R | |
|--------|---|----|------|---|-----------|
| 3.3.7 | Excavate for and build catchpit with one brick sides fitted with 520mm x 790mm x 127.4kg cast iron heavy duty dished grating and frame, size internally 480mm x 795mm and exceeding 1m and not exceeding 2m deep. | No | 4 | | |
| | <u>Extra over all manhole excavations for excavation in</u> | | | | |
| 3.3.8 | Hard rock | m3 | 10 | | |
| | <u>COVERS & GRATINGS (SUPPLY AND INSTALL COMPLETE)</u> | | | | |
| | <u>Cast iron gratings, covers, etc</u> | | | | |
| 3.3.9 | 1200 x 1200mm Heavy duty cover frame with 230 x 230mm Grid inlet including all fixings to brickwork and stormwater channel. | No | 9 | | |
| | <u>SUNDRIES</u> | | | | |
| | <u>Altering Existing Manholes</u> | | | | |
| 3.3.10 | Raising or lowering of existing manholes | No | 2 | | |
| | <u>Municipal connection points</u> | | | | |
| 3.3.11 | Cut into existing manhole for new 300mm pipe not exceeding 3m deep, including making good and all connections necessary | No | 1 | | |
| 3.3.12 | Cut into existing manhole for new 600mm pipe not exceeding 3m deep, including making good and all connections necessary | No | 1 | | |
| | <u>Municipal connection fees</u> | | | | |
| 3.3.13 | Allow the sum of R10,000.00 for municipal connection fees | | Item | | 10 000.00 |
| | <u>Testing</u> | | | | |
| 3.3.14 | Testing stormwater drainage system | | Item | | |
| | Carried Forward to Sectional Summary: | | | R | |
| | Bill No. 3 | | | | |
| | STORMWATER DRAINAGE (PROVISIONAL) | | | | |
| | PRASA | | | | |
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**BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1**

| Item No | Description | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION NO. 3</u> | | | |
| | <u>BILL NO. 4</u> | | | |
| | <u>PAVED AREAS (ALL TRADES PROVISIONAL)</u> | | | |
| | <u>EARTHWORKS</u> | | | |
| | <u>SITE CLEARANCE ETC</u> | | | |
| | <u>Site clearance</u> | | | |
| 3.4.1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc (LI) | m2 | 572 | |
| | <u>EXCAVATION OTHER THAN BULK</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep</u> | | | |
| 3.4.2 | Reduce levels under floors | m3 | 117 | |
| | <u>CARTING AWAY</u> | | | |
| | <u>Extra over all excavations for carting way</u> | | | |
| 3.4.3 | Surplus material from excavations and/or stocked piles on site to a dumping site to be located by the contractor | m3 | 117 | |
| | <u>FILLING, ETC.</u> | | | |
| | <u>Earth filling supplied by the contractor under surface beds</u> | | | |
| 3.4.4 | Imported G7 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, to be stabilized and compacted, to 95% Mod AASHTO density | m3 | 86 | |
| | Carried forward | | R | |
| | Bill No. 4 | | | |
| | PARKING AND DRIVEWAYS (PROVISIONAL) | | | |
| | PRASA | | | |
| | Prepared By SIST Consortium | | | |

| Brought forward | | | R |
|---|--|----|-----|
| 3.4.5 | Imported C4 stabilised natural gravel filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted to 97% Mod AASHTO density | m3 | 86 |
| <u>Prescribed density tests on filling</u> | | | |
| 3.4.6 | "Modified AASHTO Density" test on request by the engineer | No | 6 |
| <u>Compaction of surfaces</u> | | | |
| 3.4.7 | Compaction of ground surface under floors etc including ripping and recompacting for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% modified AASHTO density | m2 | 572 |
| <u>SOIL POISONING</u> | | | |
| <u>Soil insecticide</u> | | | |
| 3.4.8 | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming | m2 | 572 |
| <u>BRICK PAVING</u> | | | |
| 3.4.9 | 220 x 108 x 50mm Thick heavy duty Clay brick paving with butt joints including saw cutting and laid to interlocking pattern bedded on and including 50mm thick river sand | m2 | 481 |
| <u>PAINTED PARKING LINES</u> | | | |
| Carried forward | | | R |
| Bill No. 4 PARKING AND DRIVEWAYS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| Brought forward | | | R |
|---|---|----|-----|
| <u>Prepare and apply one coat and two coats 'Road Marking Paint', on paved surface in accordance with manufacturers instructions to be guaranteed against delamination from court surface or wear for a period of 5 years from date of issue of Final Completion Certificate</u> | | | |
| 3.4.10 | White road paint in individual lettering of STOP sign painted on paving, all in accordance with manufacturer's specification, each letter size approximately 600 x 900mm wide extreme | No | 12 |
| 3.4.11 | Numeral or letter 100mm high | No | 11 |
| 3.4.12 | Directional arrow 4700 x 500 wide extreme | No | 32 |
| 3.4.13 | Paraplegic emblem 500 x 1500mm wide extreme | No | 12 |
| 3.4.14 | Parking lines 100mm wide | m | 136 |
| <u>PRECAST CONCRETE</u> | | | |
| <u>PRECAST CONCRETE TACTILE PAVING</u> | | | |
| <u>Cement base product with Tac pins</u> | | | |
| 3.4.15 | Tactile pavers, size 300 x 300 x 30mm thick laid externally with 5mm joints grouted with suitable grout, bedded on 20-30mm thick river sand bed, on base course and subgrade, conforming to SANS 1200 MJ Degree Of Accuracy I. Tactile to comply to SANS 784:2008 | m2 | 336 |
| <u>PRECAST CONCRETE KERBING</u> | | | |
| <u>Concrete kerbing incl vertical joints between kerbs sealed with DOW CORNING 888 silicone joint sealant 6mm deep</u> | | | |
| 3.4.16 | Fig. 3 Kerb (SABS 927) size 150 x 300mm, on and including 150mm wide base and 200 x 200mm (class 15/19) unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc | m | 150 |
| Carried forward | | | R |
| Bill No. 4 PARKING AND DRIVEWAYS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | |

**BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1**

Brought forward

R

RESURFACING PLATFORMS

Bituminous premix road surfacing

| | | | | |
|--------|---|----|-------|--|
| 3.4.17 | 50mm Thick paving to parking areas, roadways, etc including bituminous spray to base course (0.65l/m ²) | m2 | 2 376 | |
|--------|---|----|-------|--|

Carried Forward to Sectional Summary:

R

**Bill No. 4
PARKING AND DRIVEWAYS (PROVISIONAL)
PRASA
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BIRCHLEIGH TRAIN STATION
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|---------|--|----------|------|--------|
| | <u>SECTION NO. 3</u> | | | |
| | <u>BILL NO.5</u> | | | |
| | <u>FENCING AND GATES</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Design Responsibility</u> | | | |
| | Tenderers are responsible for the design and supply of the fencing system and rates shall include approval and sign off from an approved Engineer | | | |
| | <u>Shop Drawings</u> | | | |
| | The successful Tenderer shall provide full shop drawings and calculations for approval by the Architect and Engineer prior to commencing work. The cost of such shop drawings shall be included in the rates below | | | |
| | <u>Design Responsibility</u> | | | |
| | Tenderers are responsible for the design and supply of the fencing system and rates shall include approval and sign off from an approved Engineer | | | |
| | <u>Shop Drawings</u> | | | |
| | The successful Tenderer shall provide full shop drawings and calculations for approval by the Architect and Engineer prior to commencing work. The cost of such shop drawings shall be included in the rates below | | | |
| | <u>CLEAR VIEW FENCE</u> | | | |
| | Carried forward | | R | |
| | Bill No. 5 FENCING (PROVISIONAL) PRASA Prepared By SIST Consortium | | | |

| Brought forward | | | | | R |
|---|---|----|-----|--|---|
| | <u>Galvanised clear view security fence with steel posts, stays, gates, etc. including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground</u> | | | | |
| 3.5.1 | High Density Anti-climb security fence 3m (3m High above ground) high with anti-cut pressed mesh panel of panels at 3,305m widths and apertures 76,2mm x 12,7mm with vertical wire 4mm and horizontal wire of 3mm including all galvanised posts 2,1m High and anti-climb galvanised mesh, PVC coating and applicable corrosion protection complete with all earthworks, concrete bases etc. as confirmed and approved by the suppliers Engineer. | m | 291 | | |
| 3.5.2 | 4000mm wide x 1800mm High automated sliding gate with steel track, ground beams etc. complete (gate to match fence panel type) | No | 3 | | |
| <p style="text-align: right;">Carried Forward to Sectional Summary:</p> <p>Bill No. 5 FENCING (PROVISIONAL) PRASA Prepared By SIST Consortium</p> | | | | | R |

**BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1**

| Bill No | SUMMARY | Page No | Amount |
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| 3.2 | SOIL DRAINAGE (PROVISIONAL) | 82 | |
| 3.3 | STORMWATER DRAINAGE (PROVISIONAL) | 84 | |
| 3.4 | PARKING AND DRIVEWAYS (PROVISIONAL) | 88 | |
| 3.5 | FENCING (PROVISIONAL) | 90 | |
| PRASA Prepared By SIST Consortium | | Carried to Final Summary | |
| | | R | |

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PRASA - CORRIDOR 2A
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| Item No | Description | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION NO. 4</u> | | | |
| | <u>BILL NO. 1</u> | | | |
| | <u>ELECTRICAL INSTALLATION (PROVISIONAL)</u> | | | |
| | <u>ADMINISTRATION BUILDING AND STAFF PARKING</u> | | | |
| | <u>DISTRIBUTION BOARDS</u> | | | |
| | <u>Supply, Installation and commissioning of the Distribution Board, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere)</u> | | | |
| | <u>DB-A</u> | | | |
| 4.1.1 | Supply | No | 1 | |
| 4.1.2 | Install | No | 1 | |
| | <u>Security System</u> | | | |
| | <u>Installation of Camera System equipment as specified in Section E of the Detailed Specification.</u> | | | |
| | <u>360 Degree resolution</u> | | | |
| 4.1.3 | Supply | No | 22 | |
| 4.1.4 | Install | No | 22 | |
| | <u>HiKvision DS-K2602 Double Door Access Controller Panel</u> | | | |
| 4.1.5 | Supply | No | 2 | |
| 4.1.6 | Install | No | 2 | |
| | Carried forward | | | |
| | Bill No. 1 | | | |
| | ADMIN & STAFF PARKING (PROVISIONAL) | | | |
| | PRASA | | | |
| | Prepared By SIST Consortium | | | |

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BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| | | | | | |
|--------|--|----|----|---|--|
| | Brought forward | | | R | |
| | <u>Biometric Scanner (ZKTec x7 Fingerprint Keypad Reader-Standalone)</u> | | | | |
| 4.1.7 | Supply | No | 2 | | |
| 4.1.8 | Install | No | 2 | | |
| | <u>Magnetic Lock 544 KG Holding Force</u> | | | | |
| 4.1.9 | Supply | No | 2 | | |
| 4.1.10 | Install | No | 2 | | |
| | <u>Emergency Door Release Call Point (Breaker Glass)</u> | | | | |
| 4.1.11 | Supply | No | 2 | | |
| 4.1.12 | Install | No | 2 | | |
| | <u>TELEPHONE AND DISTRIBUTION BOARDS</u> | | | | |
| | <u>Supply and installation of the following metal Ancillary Distribution Boards and coverplates for Telephone outlets. (Conduit and Conduit boxes given elsewhere).</u> | | | | |
| | <u>Telephone Distribution Board (600mm x 600mm).</u> | | | | |
| 4.1.13 | Supply | No | 1 | | |
| 4.1.14 | Install | No | 1 | | |
| | <u>Blank Coverplates</u> | | | | |
| 4.1.15 | Supply | No | 10 | | |
| 4.1.16 | Install | No | 10 | | |
| | <u>Data Distribution Board (600mm x 600mm).</u> | | | | |
| 4.1.17 | Supply | No | 1 | | |
| 4.1.18 | Install | No | 1 | | |
| | Carried forward | | | R | |
| | Bill No. 1 | | | | |
| | ADMIN & STAFF PARKING (PROVISIONAL) | | | | |
| | PRASA | | | | |
| | Prepared By SIST Consortium | | | | |

**BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
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| | | | | | |
|--------|--|--|-------|--|---|
| | | Brought forward | | | R |
| | | <u>CONDUITS</u> | | | |
| | | <u>25mm Conduit</u> | | | |
| 4.1.19 | Supply | m | 1 500 | | |
| 4.1.20 | Install | m | 1 500 | | |
| | | <u>CONDUIT BOXES & ENDS</u> | | | |
| | <u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. Either round, 50mm x 100mm, 100mm x 100mm (excluding coverplates), including holes for conduit.</u> | | | | |
| | | <u>25mm Conduit</u> | | | |
| 4.1.21 | Supply | No | 250 | | |
| 4.1.22 | Install | No | 250 | | |
| | | <u>CONDUIT ENDS</u> | | | |
| | <u>Terminate and connect one pair of conduit ends including lock nuts, bushes, etc. connecting into board tray, wiring channel etc. including cutting holes for conduit entries, but excluding conduit box.</u> | | | | |
| | | <u>25mm uPVC Conduit</u> | | | |
| 4.1.23 | Supply | No | 450 | | |
| 4.1.24 | Install | No | 450 | | |
| | | <u>CONDUCTORS</u> | | | |
| | | Carried forward | | | R |
| | Bill No. 1 ADMIN & STAFF PARKING (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

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| | | | | | |
|--------|---|---|-------|---|--|
| | Brought forward | | | R | |
| | <u>Supply and installation of PVC insulated copper conductors drawn into conduit or wiring channel in groups of 2, 3, 4, etc. with the required colour coding, but excluding any wiring connections.</u> | | | | |
| | <u>2,5 mm² PVC Conductors</u> | | | | |
| 4.1.25 | Supply | m | 3 000 | | |
| 4.1.26 | Install | m | 3 000 | | |
| | <u>4 mm² PVC Conductors</u> | | | | |
| 4.1.27 | Supply | m | 1 500 | | |
| 4.1.28 | Install | m | 1 500 | | |
| | <u>EARTH CONDUCTORS</u> | | | | |
| | <u>Supply and drawing into conduit PVC insulated earth conductors, excluding any connections</u> | | | | |
| | <u>2.5 mm² Conductors</u> | | | | |
| 4.1.29 | Supply | m | 3 000 | | |
| 4.1.30 | Install | m | 3 000 | | |
| | <u>4 mm² Conductors</u> | | | | |
| 4.1.31 | Supply | m | 1 500 | | |
| 4.1.32 | Install | m | 1 500 | | |
| | <u>LIGHT SWITCHES</u> | | | | |
| | <u>Supply, fitting and electrical connection of a flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.</u> | | | | |
| | Carried forward | | | R | |
| | Bill No. 1 ADMIN & STAFF PARKING (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

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| | | | | |
|--------|---------|---|----|---|
| | | Brought forward | | R |
| | | <u>16A 1 Lever</u> | | |
| 4.1.33 | Supply | No | 25 | |
| 4.1.34 | Install | No | 25 | |
| | | <u>LUMINAIRES</u> | | |
| | | <u>Supply and Installation of the following luminaires, complete with lamps as specified in Part C</u> | | |
| | | <u>Type A1</u> | | |
| 4.1.35 | Supply | No | 35 | |
| 4.1.36 | Install | No | 35 | |
| | | <u>Type B1</u> | | |
| 4.1.37 | Supply | No | 16 | |
| 4.1.38 | Install | No | 16 | |
| | | <u>Type C1</u> | | |
| 4.1.39 | Supply | No | 20 | |
| 4.1.40 | Install | No | 20 | |
| | | <u>Type J1</u> | | |
| 4.1.41 | Supply | No | 15 | |
| 4.1.42 | Install | No | 15 | |
| | | <u>DAYLIGHT SWITCHES / PHOTO-CELLS</u> | | |
| | | <u>Supply and installation of approved daylight switch.</u> | | |
| | | | | |
| | | Carried forward | | R |
| | | Bill No. 1 ADMIN & STAFF PARKING (PROVISIONAL) PRASA Prepared By SIST Consortium | | |

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| | | | | | |
|--------|---------|---|-----|---|--|
| | | Brought forward | | R | |
| | | <u>Occupancy sensor</u> | | | |
| 4.1.43 | Supply | No | 5 | | |
| 4.1.44 | Install | No | 5 | | |
| | | <u>Daylight Switch</u> | | | |
| 4.1.45 | Supply | No | 5 | | |
| 4.1.46 | Install | No | 5 | | |
| | | <u>SOCKET OUTLETS</u> | | | |
| | | <u>Supply, fitting and electrical connection of flush or surface mounted switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate</u> | | | |
| | | <u>16A Double SSO c/w coverplate</u> | | | |
| 4.1.47 | Supply | No | 14 | | |
| 4.1.48 | Install | No | 14 | | |
| | | <u>POWERSKIRTING</u> | | | |
| | | <u>Installation of powerskirting equipment as specified in Clause</u> | | | |
| | | <u>Powerskirting</u> | | | |
| 4.1.49 | Supply | No | 100 | | |
| 4.1.50 | Install | No | 100 | | |
| | | <u>Supply End Caps</u> | | | |
| 4.1.51 | Supply | No | 55 | | |
| 4.1.52 | Install | No | 55 | | |
| | | Carried forward | | R | |
| | | Bill No. 1 | | | |
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| | | | | | |
|--------|---|------------------------|----|----------|--|
| | | Brought forward | | R | |
| | <u>Supply Body Joint</u> | | | | |
| 4.1.53 | Supply | No | 55 | | |
| 4.1.54 | Install | No | 55 | | |
| | <u>Cover Joint</u> | | | | |
| 4.1.55 | Supply | No | 55 | | |
| 4.1.56 | Install | No | 55 | | |
| | <u>16A SSO's c/w cover powerskirting</u> | | | | |
| 4.1.57 | Supply | No | 13 | | |
| 4.1.58 | Install | No | 13 | | |
| | <u>RJ11 Connector with cradle/ cover and mod blank</u> | | | | |
| 4.1.59 | Supply | No | 10 | | |
| 4.1.60 | Install | No | 10 | | |
| | <u>RJ45 Connector with cradle/ cover mod blank</u> | | | | |
| 4.1.61 | Supply | No | 10 | | |
| 4.1.62 | Install | No | 10 | | |
| | <u>ISOLATORS</u> | | | | |
| | <u>Supply , fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100x100,100x50, round connections, but including cover plate.</u> | | | | |
| | <u>32A DP Flush Isolator for Hand Dreyer</u> | | | | |
| 4.1.63 | Supply | No | 4 | | |
| 4.1.64 | Install | m | 4 | | |
| | | | | | |
| | | Carried forward | | R | |
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| | | | | | |
|--------|---------|---|----|--|---|
| | | Brought forward | | | R |
| | | <u>30A DP Weather proof isolator for HVAC</u> | | | |
| 4.1.65 | Supply | No | 6 | | |
| 4.1.66 | Install | m | 6 | | |
| | | <u>WEATHERPROOF BOXES</u> | | | |
| | | <u>Supply and installation of a weatherproof york(200x200mm) box for isolators excluding conduit connections</u> | | | |
| | | <u>200x200 york box</u> | | | |
| 4.1.67 | Supply | No | 3 | | |
| | | <u>APPLIANCE CONNECTIONS</u> | | | |
| | | <u>Electrical connection of appliances supplied and installed by</u> | | | |
| | | <u>Connect Airconditioners single</u> | | | |
| 4.1.68 | Supply | No | 6 | | |
| | | <u>Connect Hydroboil</u> | | | |
| 4.1.69 | Supply | No | 1 | | |
| | | <u>TELEPHONE INSTALLATION</u> | | | |
| | | <u>Supply and installation of the following items for the Telephone Installation</u> | | | |
| | | <u>25mm PVC Conduit</u> | | | |
| 4.1.70 | Supply | m | 17 | | |
| 4.1.71 | Install | m | 17 | | |
| | | <u>25mm PVC Conduit end</u> | | | |
| 4.1.72 | Supply | m | 12 | | |
| | | Carried forward | | | R |
| | | Bill No. 1 | | | |
| | | ADMIN & STAFF PARKING (PROVISIONAL) | | | |
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BIRCHLEIGH TRAIN STATION
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Brought forward

R

ALARM SYSTEM

| | | | |
|--------|--|------|-----------|
| 4.1.84 | Complete supply, installation and commissioning of the alarm system to the Ticket Office - ABT | Item | 15 000.00 |
| 4.1.85 | Add for profit upon above, if required. | % | |
| 4.1.86 | Add for attendance upon above, if required. | % | |

SIREN

| | | | |
|--------|--|------|--|
| 4.1.87 | Complete supply, installation and commissioning a Siren with bell switch | Item | |
|--------|--|------|--|

LIGHTNING PROTECTION

Down Conductors

Supply and fixing on surface in an approved manner of aluminium conductor as specified in Clause A1.3.1 including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints.

| | | | |
|--------|---------------------------------------|---|------|
| 4.1.88 | 50mm ² aluminium conductor | m | 22.4 |
|--------|---------------------------------------|---|------|

Air Terminal Conductors

| | | | |
|--------|---|---|------|
| 4.1.89 | Supply and fixing on surface in an approved manner of 50mm ² aluminium conductor including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints. | m | 22.4 |
|--------|---|---|------|

Terminations of Down Conductors to Air Terminals

Termination of aluminium conductor to metal roof as specified in Clause A1.4 including lugs and making off of the ends etc.

| | | | |
|--------|--|----|---|
| 4.1.90 | 50mm ² aluminium conductor to metal roof. | No | 4 |
|--------|--|----|---|

Carried forward

R

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Brought forward

R

Earthing Conductors

Supply and laying in the ground and in conduits of copper earth wire as specified in Clause A1.5 excluding terminations. Rates quoted shall allow for wastage, off-cut and joints.

| | | | | |
|--------|--|---|------|--|
| 4.1.91 | 70mm ² Green PVC insulated copper conductor | m | 22.4 | |
|--------|--|---|------|--|

Termination of Earthing Conductors to Down Conductors

Termination of earth conductor to aluminium down conductor and earth electrodes including making off the ends, lugs, clamps, etc.

| | | | | |
|--------|--|----|---|--|
| 4.1.92 | 50mm ² Termination to 70mm ² conductor | No | 4 | |
|--------|--|----|---|--|

Earth Electrodes

Supply and installation of earth electrodes generally as specified in Clause A1.3.3.

| | | | | |
|--------|----------------------------|----|---|--|
| 4.1.93 | 3,6m long earth electrodes | No | 4 | |
|--------|----------------------------|----|---|--|

Termination of Earth Conductors to Earth Electrodes

Termination of Earth Conductors to Earth Electrodes including making off of ends, lugs, clamps, etc.

| | | | | |
|--------|--|----|---|--|
| 4.1.94 | 70mm ² Earth Conductor to Earth Electrode | No | 4 | |
|--------|--|----|---|--|

General Earth Bonding

| | | | | |
|--------|---|--|------|--|
| 4.1.95 | Bonding of metal drainage down pipes and items. | | Item | |
|--------|---|--|------|--|

Testing

Supply and testing apparatus and testing in accordance with SANS Code.

| | | | | |
|--------|-----------------------------|--|------|--|
| 4.1.96 | Testing of joint continuity | | Item | |
|--------|-----------------------------|--|------|--|

Carried forward

R

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| | | |
|--------|--|------|
| 4.1.97 | Testing of Lightning Protection System | Item |
| 4.1.98 | Testing of Earthing Points | Item |
| 4.1.99 | Soil Resistivity Test and Report | Item |

Carried Forward to Sectional Summary:

R

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| Item No | Description | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>SECTION NO. 4</u> | | | |
| | <u>BILL NO. 2</u> | | | |
| | <u>ELECTRICAL INSTALLATION (PROVISIONAL)</u> | | | |
| | <u>PLATFORMS</u> | | | |
| | <u>Security System</u> | | | |
| | <u>Installation of Camera System equipment as specified in Section E of the Detailed Specification.</u> | | | |
| | <u>360 Degree resolution</u> | | | |
| 4.2.1 | Supply | No | 12 | |
| 4.2.2 | Install | No | 12 | |
| | <u>CONDUITS</u> | | | |
| | <u>25mm Conduit</u> | | | |
| 4.2.3 | Supply | m | 80 | |
| 4.2.4 | Install | m | 80 | |
| | <u>CONDUIT BOXES & ENDS</u> | | | |
| | <u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. Either round, 50mm x 100mm, 100mm x 100mm (excluding coverplates), including holes for conduit.</u> | | | |
| | <u>25mm Conduit</u> | | | |
| 4.2.5 | Supply | No | 30 | |
| | Carried forward | | | R |
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| | | | |
|-------|---------|----|----|
| 4.2.6 | Install | No | 30 |
|-------|---------|----|----|

CONDUIT ENDS

Terminate and connect one pair of conduit ends including lock nuts, bushes, etc. connecting into board tray, wiring channel etc. including cutting holes for conduit entries, but excluding conduit box.

25mm uPVC Conduit

| | | | |
|-------|--------|----|----|
| 4.2.7 | Supply | No | 35 |
|-------|--------|----|----|

| | | | |
|-------|---------|----|----|
| 4.2.8 | Install | No | 35 |
|-------|---------|----|----|

CONDUCTORS

Supply and installation of PVC insulated copper conductors drawn into conduit or wiring channel in groups of 2, 3, 4, etc. with the required colour coding, but excluding any wiring connections.

2.5 mm² PVC Conductors

| | | | |
|-------|--------|---|-----|
| 4.2.9 | Supply | m | 250 |
|-------|--------|---|-----|

| | | | |
|--------|---------|---|-----|
| 4.2.10 | Install | m | 250 |
|--------|---------|---|-----|

4 mm² PVC Conductors

| | | | |
|--------|--------|---|-----|
| 4.2.11 | Supply | m | 100 |
|--------|--------|---|-----|

| | | | |
|--------|---------|---|-----|
| 4.2.12 | Install | m | 100 |
|--------|---------|---|-----|

EARTH CONDUCTORS

Supply and drawing into conduit PVC insulated earth conductors, excluding any connections

Carried forward

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|--------|---------|---|-----|--|----------|
| | | Brought forward | | | R |
| | | <u>2,5 mm² Conductors</u> | | | |
| 4.2.13 | Supply | m | 450 | | |
| 4.2.14 | Install | m | 450 | | |
| | | <u>4 mm² Conductors</u> | | | |
| 4.2.15 | Supply | m | 150 | | |
| 4.2.16 | Install | m | 150 | | |
| | | <u>LUMINAIRES</u> | | | |
| | | <u>Supply and Installation of the following luminaires, complete with lamps as specified in Part C</u> | | | |
| | | <u>Type A1</u> | | | |
| 4.2.17 | Supply | No | 24 | | |
| 4.2.18 | Install | No | 24 | | |
| | | <u>Type J1</u> | | | |
| 4.2.19 | Supply | No | 41 | | |
| 4.2.20 | Install | No | 41 | | |
| | | <u>DAYLIGHT SWITCHES / PHOTO-CELLS</u> | | | |
| | | <u>Supply and installation of approved daylight switch.</u> | | | |
| | | <u>Daylight Switch</u> | | | |
| 4.2.21 | Supply | No | 4 | | |
| 4.2.22 | Install | No | 4 | | |
| | | Carried forward | | | R |
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|--------|--|--|------|---|-----------|
| | | Brought forward | | R | |
| | | <u>Loud speaker at a train station</u> | | | |
| 4.2.23 | Supply | No | 4 | | |
| 4.2.24 | Install | No | 4 | | |
| | | <u>SOCKET OUTLETS</u> | | | |
| | | <u>Supply, fitting and electrical connection of flush or surface mounted switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate</u> | | | |
| | | <u>16A Double SSO c/w coverplate</u> | | | |
| 4.2.25 | Supply | No | 4 | | |
| 4.2.26 | Install | No | 4 | | |
| | | <u>WEATHERPROOF BOXES</u> | | | |
| | | <u>Supply and installation of a weatherproof york(200x200mm) box for isolators excluding conduit connections</u> | | | |
| | | <u>200x200 york box</u> | | | |
| 4.2.27 | Supply | No | 4 | | |
| | | <u>PROVISIONAL SUMS</u> | | | |
| | | <u>ALARM SYSTEM</u> | | | |
| 4.2.28 | Complete supply, installation and commissioning of the alarm system to the Ticket Office - ABT | | Item | | 15 000.00 |
| 4.2.29 | Add for profit upon above, if required. | | | % | |
| 4.2.30 | Add for attendance upon above, if required. | | | % | |
| | | Carried forward | | R | |
| | Bill No. 2 PLATFORMS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

| | | | | | |
|--------|---|----|------|---|--|
| | Brought forward | | | R | |
| | <u>LIGHTNING PROTECTION</u> | | | | |
| | <u>Down Conductors</u> | | | | |
| | <u>Supply and fixing on surface in an approved manner of aluminium conductor as specified in Clause A1.3.1 including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints.</u> | | | | |
| 4.2.31 | 50mm ² aluminium conductor | m | 11.2 | | |
| | <u>Air Terminal Conductors</u> | | | | |
| 4.2.32 | Supply and fixing on surface in an approved manner of 50mm ² aluminium conductor including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints. | m | 11.2 | | |
| | <u>Terminations of Down Conductors to Air Terminals</u> | | | | |
| | <u>Termination of aluminium conductor to metal roof as specified in Clause A1.4 including lugs and making off of the ends etc.</u> | | | | |
| 4.2.33 | 50mm ² aluminium conductor to metal roof. | No | 4 | | |
| | <u>Earthing Conductors</u> | | | | |
| | <u>Supply and laying in the ground and in conduits of copper earth wire as specified in Clause A1.5 excluding terminations. Rates quoted shall allow for wastage, off-cut and joints.</u> | | | | |
| 4.2.34 | 70mm ² Green PVC insulated copper conductor | m | 11.2 | | |
| | <u>Termination of Earthing Conductors to Down Conductors</u> | | | | |
| | Carried forward | | | | |
| | Bill No. 2 PLATFORMS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |
| | | | | R | |

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|--------|--|-----------------|------|--|---|
| | | Brought forward | | | R |
| | <u>Termination of earth conductor to aluminium down conductor and earth electrodes including making off the ends, lugs, clamps, etc.</u> | | | | |
| 4.2.35 | 50mm ² Termination to 70mm ² conductor | No | 4 | | |
| | <u>Earth Electrodes</u> | | | | |
| | <u>Supply and installation of earth electrodes generally as specified in Clause A1.3.3.</u> | | | | |
| 4.2.36 | 3,6m long earth electrodes | No | 4 | | |
| | <u>Termination of Earth Conductors to Earth Electrodes</u> | | | | |
| | <u>Termination of Earth Conductors to Earth Electrodes including making off of ends, lugs, clamps, etc.</u> | | | | |
| 4.2.37 | 70mm ² Earth Conductor to Earth Electrode | No | 4 | | |
| | <u>General Earth Bonding</u> | | | | |
| 4.2.38 | Bonding of metal drainage down pipes and items. | | Item | | |
| | <u>Testing</u> | | | | |
| | <u>Supply and testing apparatus and testing in accordance with SANS Code.</u> | | | | |
| 4.2.39 | Testing of joint continuity | | Item | | |
| 4.2.40 | Testing of Lightning Protection System | | Item | | |
| 4.2.41 | Testing of Earthing Points | | Item | | |
| 4.2.42 | Soil Resistivity Test and Report | | Item | | |
| | Carried Forward to Sectional Summary: | | | | R |
| | Bill No. 2 | | | | |
| | PLATFORMS (PROVISIONAL) | | | | |
| | PRASA | | | | |
| | Prepared By SIST Consortium | | | | |

**BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1**

| Item No | Description | | Quantity | Rate | Amount |
|---------|---|----|----------|------|--------|
| | <u>SECTION NO. 4</u> | | | | |
| | <u>BILL NO. 3</u> | | | | |
| | <u>ELECTRICAL INSTALLATION (PROVISIONAL)</u> | | | | |
| | <u>PUBLIC ABLUTIONS</u> | | | | |
| | <u>DISTRIBUTION BOARDS</u> | | | | |
| | <u>Supply, Installation and commissioning of the Distribution Board, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere)</u> | | | | |
| | <u>DB- T</u> | | | | |
| 4.3.1 | Supply | No | 1 | | |
| 4.3.2 | Install | No | 1 | | |
| | <u>Security System</u> | | | | |
| | <u>Installation of Camera System equipment as specified in Section E of the Detailed Specification.</u> | | | | |
| | <u>360 Degree resolution</u> | | | | |
| 4.3.3 | Supply | No | 2 | | |
| 4.3.4 | Install | No | 2 | | |
| | <u>CONDUITS</u> | | | | |
| | <u>25mm Conduit</u> | | | | |
| 4.3.5 | Supply | m | 25 | | |
| 4.3.6 | Install | m | 25 | | |
| | Carried forward | | | R | |
| | Bill No. 3 | | | | |
| | PUBLIC ABLUTIONS (PROVISIONAL) | | | | |
| | PRASA | | | | |
| | Prepared By SIST Consortium | | | | |

| | | | | | |
|--------|---------|---|----|--|---|
| | | Brought forward | | | R |
| | | <u>CONDUIT BOXES & ENDS</u> | | | |
| | | <u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. Either round, 50mm x 100mm, 100mm x 100mm (excluding coverplates), including holes for conduit.</u> | | | |
| | | <u>25mm Conduit</u> | | | |
| 4.3.7 | Supply | No | 15 | | |
| 4.3.8 | Install | No | 15 | | |
| | | <u>CONDUIT ENDS</u> | | | |
| | | <u>Terminate and connect one pair of conduit ends including lock nuts, bushes, etc. connecting into board tray, wiring channel etc. including cutting holes for conduit entries, but excluding conduit box.</u> | | | |
| | | <u>25mm uPVC Conduit</u> | | | |
| 4.3.9 | Supply | No | 8 | | |
| 4.3.10 | Install | No | 8 | | |
| | | <u>CONDUCTORS</u> | | | |
| | | <u>Supply and installation of PVC insulated copper conductors drawn into conduit or wiring channel in groups of 2, 3, 4, etc. with the required colour coding, but excluding any wiring connections.</u> | | | |
| | | <u>2,5 mm² PVC Conductors</u> | | | |
| 4.3.11 | Supply | m | 50 | | |
| 4.3.12 | Install | m | 50 | | |
| | | Carried forward | | | R |
| | | Bill No. 3 PUBLIC ABLUTIONS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

Brought forward

R

EARTH CONDUCTORS

Supply and drawing into conduit PVC insulated earth conductors, excluding any connections

2.5 mm² Conductors

| | | | |
|--------|---------|---|----|
| 4.3.13 | Supply | m | 15 |
| 4.3.14 | Install | m | 15 |

LIGHT SWITCHES

Supply, fitting and electrical connection of a flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.

16A 1 Lever

| | | | |
|--------|---------|----|---|
| 4.3.15 | Supply | No | 5 |
| 4.3.16 | Install | No | 5 |

16A 1 Lever 2 Way

| | | | |
|--------|---------|----|---|
| 4.3.17 | Supply | No | 1 |
| 4.3.18 | Install | No | 1 |

LUMINAIRES

Supply and Installation of the following luminaires, complete with lamps as specified in Part C

Type C1

| | | | |
|--------|---------|----|----|
| 4.3.19 | Supply | No | 27 |
| 4.3.20 | Install | No | 27 |

Carried forward

R

Bill No. 3
PUBLIC ABLUTIONS (PROVISIONAL)
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BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| | | | | | |
|--------|---|-----------------|----|--|---|
| | | Brought forward | | | R |
| | <u>Type J1</u> | | | | |
| 4.3.21 | Supply | No | 14 | | |
| 4.3.22 | Install | No | 14 | | |
| | <u>DAYLIGHT SWITCHES / PHOTO-CELLS</u> | | | | |
| | <u>Supply and installation of approved daylight switch.</u> | | | | |
| | <u>Daylight Switch</u> | | | | |
| 4.3.23 | Supply | No | 2 | | |
| 4.3.24 | Install | No | 2 | | |
| | <u>ISOLATORS</u> | | | | |
| | <u>Supply , fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100x100,100x50, round connections, but including cover plate.</u> | | | | |
| | <u>30A DP Weather proof isolator for HVAC</u> | | | | |
| 4.3.25 | Supply | No | 2 | | |
| 4.3.26 | Install | m | 2 | | |
| | <u>WEATHERPROOF BOXES</u> | | | | |
| | <u>Supply and installation of a weatherproof york(200x200mm) box for isolators excluding conduit connections</u> | | | | |
| | <u>200x200 york box</u> | | | | |
| 4.3.27 | Supply | No | 2 | | |
| | <u>APPLIANCE CONNECTIONS</u> | | | | |
| | | | | | |
| | | Carried forward | | | R |
| | Bill No. 3 PUBLIC ABLUTIONS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

| | | | | |
|--------|---|---|------|---|
| | | Brought forward | | R |
| | | <u>Electrical connection of appliances supplied and installed by</u> | | |
| | | <u>Connect Airconditioners single</u> | | |
| 4.3.28 | Supply | No | 2 | |
| | | <u>LIGHTNING PROTECTION</u> | | |
| | | <u>Down Conductors</u> | | |
| | | <u>Supply and fixing on surface in an approved manner of aluminium conductor as specified in Clause A1.3.1 including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints.</u> | | |
| 4.3.29 | 50mm ² aluminium conductor | m | 11.2 | |
| | | <u>Air Terminal Conductors</u> | | |
| 4.3.30 | Supply and fixing on surface in an approved manner of 50mm ² aluminium conductor including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints. | m | 11.2 | |
| | | <u>Terminations of Down Conductors to Air Terminals</u> | | |
| | | <u>Termination of aluminium conductor to metal roof as specified in Clause A1.4 including lugs and making off of the ends etc.</u> | | |
| 4.3.31 | 50mm ² aluminium conductor to metal roof. | No | 2 | |
| | | <u>Earthing Conductors</u> | | |
| | | Carried forward | | R |
| | | Bill No. 3 PUBLIC ABLUTIONS (PROVISIONAL) PRASA Prepared By SIST Consortium | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| | | | | | |
|--------|---|-----------------|------|--|---|
| | | Brought forward | | | R |
| | <u>Supply and laying in the ground and in conduits of copper earth wire as specified in Clause A1.5 excluding terminations. Rates quoted shall allow for wastage, off-cut and joints.</u> | | | | |
| 4.3.32 | 70mm ² Green PVC insulated copper conductor | m | 11.2 | | |
| | <u>Termination of Earthing Conductors to Down Conductors</u> | | | | |
| | <u>Termination of earth conductor to aluminium down conductor and earth electrodes including making off the ends, lugs, clamps, etc.</u> | | | | |
| 4.3.33 | 50mm ² Termination to 70mm ² conductor | No | 2 | | |
| | <u>Earth Electrodes</u> | | | | |
| | <u>Supply and installation of earth electrodes generally as specified in Clause A1.3.3.</u> | | | | |
| 4.3.34 | 3,6m long earth electrodes | No | 2 | | |
| | <u>Termination of Earth Conductors to Earth Electrodes</u> | | | | |
| | <u>Termination of Earth Conductors to Earth Electrodes including making off of ends, lugs, clamps, etc.</u> | | | | |
| 4.3.35 | 70mm ² Earth Conductor to Earth Electrode | No | 2 | | |
| | <u>General Earth Bonding</u> | | | | |
| 4.3.36 | Bonding of metal drainage down pipes and items. | | Item | | |
| | <u>Testing</u> | | | | |
| | <u>Supply and testing apparatus and testing in accordance with SANS Code.</u> | | | | |
| 4.3.37 | Testing of joint continuity | | Item | | |
| 4.3.38 | Testing of Lightning Protection System | | Item | | |
| | | Carried forward | | | R |
| | Bill No. 3 PUBLIC ABLUTIONS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

**BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1**

Brought forward

R

4.3.39 Testing of Earthing Points

Item

4.3.40 Soil Resistivity Test and Report

Item

Carried Forward to Sectional Summary:

R

**Bill No. 3
PUBLIC ABLUTIONS (PROVISIONAL)
PRASA
Prepared By SIST Consortium**

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| Item No | Description | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION NO. 4</u> | | | |
| | <u>BILL NO. 4</u> | | | |
| | <u>ELECTRICAL INSTALLATION (PROVISIONAL)</u> | | | |
| | <u>ADMINISTRATION BUILDING AND STAFF PARKING</u> | | | |
| | <u>DISTRIBUTION BOARDS</u> | | | |
| | <u>Supply, Installation and commissioning of the Distribution Board, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere)</u> | | | |
| | <u>DB-A</u> | | | |
| 4.4.1 | Supply | No | 1 | |
| 4.4.2 | Install | No | 1 | |
| | <u>Security System</u> | | | |
| | <u>Installation of Camera System equipment as specified in Section E of the Detailed Specification.</u> | | | |
| | <u>360 Degree resolution</u> | | | |
| 4.4.3 | Supply | No | 2 | |
| 4.4.4 | Install | No | 2 | |
| | <u>CABLE SLEEVES</u> | | | |
| | <u>110mm diameter rigid cable</u> | | | |
| 4.4.5 | Supply | m | 15 | |
| | Carried forward | | R | |
| | Bill No. 4 SECURITY & CLEARERS ACCOMMODATION PRASA Prepared By SIST Consortium | | | |

| Brought forward | | | R |
|--|--|----|----|
| 4.4.6 | Install | m | 15 |
| <u>EXCAVATIONS</u> | | | |
| 4.4.7 | In trenches for cables and sleeves | m3 | 15 |
| 4.4.8 | Extra over soft excavation intimediate | m3 | 15 |
| 4.4.9 | Extra over soft excavation hard rock | m3 | 15 |
| 4.4.10 | Backfilling of trenches | m3 | 15 |
| 4.4.11 | Side of trenches and holes excavation not exceeding 1,5m | m3 | 15 |
| <u>CONDUITS</u> | | | |
| <u>25mm Conduit</u> | | | |
| 4.4.12 | Supply | m | 25 |
| 4.4.13 | Install | m | 25 |
| <u>CONDUIT BOXES & ENDS</u> | | | |
| <u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. Either round, 50mm x 100mm, 100mm x 100mm (excluding coverplates), including holes for conduit.</u> | | | |
| <u>25mm Conduit</u> | | | |
| 4.4.14 | Supply | No | 15 |
| 4.4.15 | Install | No | 15 |
| <u>CONDUIT ENDS</u> | | | |
| Carried forward | | | R |
| Bill No. 4 SECURITY & CLEARNERS ACCOMMODATION PRASA Prepared By SIST Consortium | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| | | | | | |
|--------|---------|---|-----|--|---|
| | | Brought forward | | | R |
| | | <u>Terminate and connect one pair of conduit ends including lock nuts, bushes, etc. connecting into board tray, wiring channel etc. including cutting holes for conduit entries, but excluding conduit box.</u> | | | |
| | | <u>25mm uPVC Conduit</u> | | | |
| 4.4.16 | Supply | No | 20 | | |
| 4.4.17 | Install | No | 20 | | |
| | | <u>CONDUCTORS</u> | | | |
| | | <u>Supply and installation of PVC insulated copper conductors drawn into conduit or wiring channel in groups of 2, 3, 4, etc. with the required colour coding, but excluding any wiring connections.</u> | | | |
| | | <u>2,5 mm² PVC Conductors</u> | | | |
| 4.4.18 | Supply | m | 150 | | |
| 4.4.19 | Install | m | 150 | | |
| | | <u>4 mm² PVC Conductors</u> | | | |
| 4.4.20 | Supply | m | 100 | | |
| 4.4.21 | Install | m | 100 | | |
| | | <u>EARTH CONDUCTORS</u> | | | |
| | | <u>Supply and drawing into conduit PVC insulated earth conductors, excluding any connections</u> | | | |
| | | <u>2.5 mm² Conductors</u> | | | |
| 4.4.22 | Supply | m | 150 | | |
| 4.4.23 | Install | m | 150 | | |
| | | Carried forward | | | R |
| | | Bill No. 4 SECURITY & CLEARNERS ACCOMMODATION PRASA Prepared By SIST Consortium | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| | | | | | |
|--------|---|--|-----|--|---|
| | | Brought forward | | | R |
| | | <u>4 mm² Conductors</u> | | | |
| 4.4.24 | Supply | m | 100 | | |
| 4.4.25 | Install | m | 100 | | |
| | | <u>LIGHT SWITCHES</u> | | | |
| | | <u>Supply, fitting and electrical connection of a flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.</u> | | | |
| | | <u>16A 1 Lever</u> | | | |
| 4.4.26 | Supply | No | 2 | | |
| 4.4.27 | Install | No | 2 | | |
| | | <u>LUMINAIRES</u> | | | |
| | | <u>Supply and Installation of the following luminaires, complete with lamps as specified in Part C</u> | | | |
| | | <u>Type A1</u> | | | |
| 4.4.28 | Supply | No | 4 | | |
| 4.4.29 | Install | No | 4 | | |
| | | <u>Type J1</u> | | | |
| 4.4.30 | Supply | No | 7 | | |
| 4.4.31 | Install | No | 7 | | |
| | | <u>DAYLIGHT SWITCHES / PHOTO-CELLS</u> | | | |
| | | <u>Supply and installation of approved daylight switch.</u> | | | |
| | | Carried forward | | | R |
| | Bill No. 4 SECURITY & CLEARERS ACCOMMODATION PRASA Prepared By SIST Consortium | | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| | | | | | |
|--------|---|-----------------|-----|--|---|
| | | Brought forward | | | R |
| | <u>Daylight Switch</u> | | | | |
| 4.4.32 | Supply | No | 1 | | |
| 4.4.33 | Install | No | 1 | | |
| | <u>SOCKET OUTLETS</u> | | | | |
| | <u>Supply, fitting and electrical connection of flush or surface mounted switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate</u> | | | | |
| | <u>16A Double SSO c/w coverplate</u> | | | | |
| 4.4.34 | Supply | No | 4 | | |
| 4.4.35 | Install | No | 4 | | |
| | <u>WEATHERPROOF BOXES</u> | | | | |
| | <u>Supply and installation of a weatherproof york(200x200mm) box for isolators excluding conduit connections</u> | | | | |
| | <u>200x200 york box</u> | | | | |
| 4.4.36 | Supply | No | 4 | | |
| | <u>LIGHTNING PROTECTION</u> | | | | |
| | <u>Down Conductors</u> | | | | |
| | <u>Supply and fixing on surface in an approved manner of aluminium conductor as specified in Clause A1.3.1 including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints.</u> | | | | |
| 4.4.37 | 50mm ² aluminium conductor | m | 5.6 | | |
| | | | | | |
| | | Carried forward | | | R |
| | Bill No. 4 | | | | |
| | SECURITY & CLEARERS ACCOMMODATION | | | | |
| | PRASA | | | | |
| | Prepared By SIST Consortium | | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| | | | | | |
|--------|---|------------------------|-----|--|----------|
| | | Brought forward | | | R |
| | <u>Air Terminal Conductors</u> | | | | |
| 4.4.38 | Supply and fixing on surface in an approved manner of 50mm ² aluminium conductor including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints. | m | 5.6 | | |
| | <u>Terminations of Down Conductors to Air Terminals</u> | | | | |
| | <u>Termination of aluminium conductor to metal roof as specified in Clause A1.4 including lugs and making off of the ends etc.</u> | | | | |
| 4.4.39 | 50mm ² aluminium conductor to metal roof. | No | 1 | | |
| | <u>Earthing Conductors</u> | | | | |
| | <u>Supply and laying in the ground and in conduits of copper earth wire as specified in Clause A1.5 excluding terminations. Rates quoted shall allow for wastage, off-cut and joints.</u> | | | | |
| 4.4.40 | 70mm ² Green PVC insulated copper conductor | m | 5.6 | | |
| | <u>Termination of Earthing Conductors to Down Conductors</u> | | | | |
| | <u>Termination of earth conductor to aluminium down conductor and earth electrodes including making off the ends, lugs, clamps, etc.</u> | | | | |
| 4.4.41 | 50mm ² Termination to 70mm ² conductor | No | 1 | | |
| | <u>Earth Electrodes</u> | | | | |
| | <u>Supply and installation of earth electrodes generally as specified in Clause A1.3.3.</u> | | | | |
| 4.4.42 | 3,6m long earth electrodes | No | 1 | | |
| | <u>Termination of Earth Conductors to Earth Electrodes</u> | | | | |
| | | | | | |
| | | Carried forward | | | R |
| | Bill No. 4 | | | | |
| | SECURITY & CLEARERS ACCOMMODATION | | | | |
| | PRASA | | | | |
| | Prepared By SIST Consortium | | | | |

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BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| Item No | Description | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION NO. 4</u> | | | |
| | <u>BILL NO. 5</u> | | | |
| | <u>ELECTRICAL INSTALLATION (PROVISIONAL)</u> | | | |
| | <u>EXTERNAL WORKS</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Refer to the attached Specifications for the Electrical Installation. The Tenderer must at all times read the Bills of Quantities in conjunction with the specification and drawings prior to pricing this section. Items 1-4 below applies to the entire electrical installation for the school. | | | |
| | <u>GUARANTEE AND MAINTENANCE</u> | | | |
| 4.5.1 | Guarantee and maintenance for the complete installation of Electrical Installation including fittings, materials and workmanship for a period of TWELVE MONTHS after date of completion and handover. | Item | | |
| | <u>TESTING</u> | | | |
| 4.5.2 | Allow for testing, balancing and commissioning the whole of the electrical installation as laid down in the specification and for re-testing as may be required after the making good of all defective work to the satisfaction of the Department and the Engineer. | Item | | |
| | <u>AS-BUILT DRAWINGS</u> | | | |
| 4.5.3 | Provision for the drawings showing all site cable routes, conduit routes, draw boxes and positions of outlets, etc. | Item | | |
| | <u>CERTIFICATE OF COMPLIANCE</u> | | | |
| 4.5.4 | Provision for the Certificate of Compliance to be issued on completion of the project. | Item | | |
| | Carried forward | | R | |
| | Bill No. 5 | | | |
| | EXTERNAL WORKS (PROVISIONAL) | | | |
| | PRASA | | | |
| | Prepared By SIST Consortium | | | |

BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

Brought forward

R

LABELLING AND MARKING

4.5.5 Allow for marking and labelling of all equipment, cables etc.

Item

Provisional Sum

4.5.6 Allow for a Connection with the Back-up Generator of 100KVA

Item

347 050.00

4.5.7 Add for profit upon above, if required.

%

4.5.8 Add for attendance upon above, if required.

%

New Kiosk

Supply and Installation and commissioning of the Kiosk, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere).

4.5.9 Supply

No

1

4.5.10 Install

No

1

Copper Cables - (External Works)
Provisional Quantities

Supply, delivery and laying of PVC/ECC/SWA/PVC copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts

70 mm² 4 core PVC/SWA/PVC ECC Cable

4.5.11 Supply

m

100

4.5.12 Install

m

100

Carried forward

R

Bill No. 5
EXTERNAL WORKS (PROVISIONAL)
PRASA
Prepared By SIST Consortium

**BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1**

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BIRCHLEIGH TRAIN STATION
PRASA - CORRIDOR 2A
UPGRADES TO EXISTING TRAIN STATION - PHASE 1

| | | | | | |
|--------|--|---|-----|--|---|
| | | Brought forward | | | R |
| | | <u>Supply and Installation of Cable Sleeves as specified, in trenches or cast in concrete, excluding trenching or backfilling.</u> | | | |
| | | <u>110mm Ø Rigid Cable Sleeve</u> | | | |
| 4.5.23 | Supply | No | 20 | | |
| 4.5.24 | Install | No | 20 | | |
| | | <u>75mm Ø Rigid Cable Sleeve</u> | | | |
| | | <u>EXCAVATIONS</u> | | | |
| | | <u>CPAP WORK GROUP NO 104 UNLESS OTHERWISE STATED</u> | | | |
| | | <u>Excavations other than bulk in soft excavation not exceeding 2m deep for:</u> | | | |
| | | Allowance is to be made for the installation of cable markers and warning sheets | | | |
| 4.5.25 | In trenches for cables and sleeves | m3 | 750 | | |
| | | <u>Filling obtained from excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u> | | | |
| 4.5.26 | Backfilling of trenches | m3 | 750 | | |
| | | <u>Risk of collapse of excavations other than bulk</u> | | | |
| 4.5.27 | Sides of trenches and hole excavations not exceeding 1.5m deep | m3 | 750 | | |
| | | <u>Manholes</u> | | | |
| | | <u>Supply and installation of manholes as shown on the drawings. Refer to Clause B6</u> | | | |
| 4.5.28 | 600 x 600mm Concrete Manholes | No | 2 | | |
| | | Carried forward | | | R |
| | | Bill No. 5 | | | |
| | | EXTERNAL WORKS (PROVISIONAL) | | | |
| | | PRASA | | | |
| | | Prepared By SIST Consortium | | | |

| | | | | |
|--------|--------------------------|---|-----|---|
| | | Brought forward | | R |
| | | <u>Cable Markers</u> | | |
| | | Allow to supply and install cable markers | | |
| 4.5.29 | PVC warning marking tape | m | 750 | |
| | | <u>Luminaires</u> | | |
| | | <u>Supply and install and electrically connecting the following luminaires, complete with lamps. Refer to Clause C2 of Part 3.</u> | | |
| | | <u>Type P1.1</u> | | |
| 4.5.30 | Supply | No | 20 | |
| 4.5.31 | Install | No | 20 | |
| | | <u>7m Pole</u> | | |
| 4.5.32 | Supply | No | 20 | |
| 4.5.33 | Install | No | 20 | |
| | | <u>Daylight Switch</u> | | |
| | | <u>Supply and installation of approved daylight switch.</u> | | |
| | | <u>Daylight Switch</u> | | |
| 4.5.34 | Supply | No | 4 | |
| 4.5.35 | Install | No | 4 | |
| | | <u>Loud speaker at a train station</u> | | |
| 4.5.36 | Supply | No | 4 | |
| 4.5.37 | Install | No | 4 | |
| | | <u>LIGHTNING PROTECTION</u> | | |
| | | | | |
| | | Carried forward | | R |
| | | Bill No. 5 | | |
| | | EXTERNAL WORKS (PROVISIONAL) | | |
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| | Brought forward | | | R | |
| | <u>Down Conductors</u> | | | | |
| | <u>Supply and fixing on surface in an approved manner of aluminium conductor as specified in Clause A1.3.1 including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints.</u> | | | | |
| 4.5.38 | 50mm ² aluminium conductor | m | 15.0 | | |
| | <u>Air Terminal Conductors</u> | | | | |
| 4.5.39 | Supply and fixing on surface in an approved manner of 50mm ² aluminium conductor including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints. | m | 15.0 | | |
| | <u>Terminations of Down Conductors to Air Terminals</u> | | | | |
| | <u>Termination of aluminium conductor to metal roof as specified in Clause A1.4 including lugs and making off of the ends etc.</u> | | | | |
| 4.5.40 | 50mm ² aluminium conductor to metal roof. | No | 4 | | |
| | <u>Earthing Conductors</u> | | | | |
| | <u>Supply and laying in the ground and in conduits of copper earth wire as specified in Clause A1.5 excluding terminations. Rates quoted shall allow for wastage, off-cut and joints.</u> | | | | |
| 4.5.41 | 70mm ² Green PVC insulated copper conductor | m | 12.0 | | |
| | <u>Termination of Earthing Conductors to Down Conductors</u> | | | | |
| | <u>Termination of earth conductor to aluminium down conductor and earth electrodes including making off the ends, lugs, clamps, etc.</u> | | | | |
| 4.5.42 | 50mm ² Termination to 70mm ² conductor | No | 4 | | |
| | Carried forward | | | R | |
| | Bill No. 5 EXTERNAL WORKS (PROVISIONAL) PRASA Prepared By SIST Consortium | | | | |

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Earth Electrodes

Supply and installation of earth electrodes generally as specified in Clause A1.3.3.

| | | | |
|--------|----------------------------|----|---|
| 4.5.43 | 3,6m long earth electrodes | No | 4 |
|--------|----------------------------|----|---|

Termination of Earth Conductors to Earth Electrodes

Termination of Earth Conductors to Earth Electrodes including making off of ends, lugs, clamps, etc.

| | | | |
|--------|--|----|---|
| 4.5.44 | 70mm ² Earth Conductor to Earth Electrode | No | 4 |
|--------|--|----|---|

General Earth Bonding

| | | | |
|--------|---|--|------|
| 4.5.45 | Bonding of metal drainage down pipes and items. | | Item |
|--------|---|--|------|

Testing

Supply and testing apparatus and testing in accordance with SANS Code.

| | | | |
|--------|-----------------------------|--|------|
| 4.5.46 | Testing of joint continuity | | Item |
|--------|-----------------------------|--|------|

| | | | |
|--------|--|--|------|
| 4.5.47 | Testing of Lightning Protection System | | Item |
|--------|--|--|------|

| | | | |
|--------|----------------------------|--|------|
| 4.5.48 | Testing of Earthing Points | | Item |
|--------|----------------------------|--|------|

| | | | |
|--------|----------------------------------|--|------|
| 4.5.49 | Soil Resistivity Test and Report | | Item |
|--------|----------------------------------|--|------|

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| | <u>SECTION NO. 5</u> | | | |
| | <u>BILL NO. 1</u> | | | |
| | <u>AIR CONDITIONING AND VENTILATION INSTALLATION (PROVISIONAL)</u> | | | |
| | <u>EXISTING TICKET OFFICE</u> | | | |
| | <u>AIR CONDITIONING</u> | | | |
| | Split Inverter Type Air Conditioning Pricing shall include Refrigerant Pipes. | | | |
| | Air Conditioning Indoor Unit and Outdoor Units. | | | |
| | Split Inverter Type. | | | |
| | <u>Ticket Sales Booth Five(5) off: 2.5kW Cooling Capacity and 2.8kW Heating Highwall Inverter type Split Unit, complete with controls and accessories.</u> | | | |
| 5.1.1 | Supply | No | 5 | |
| 5.1.2 | Intsall | No | 5 | |
| | <u>Ticket Office 1: 5.3kW Cooling Capacity and 5.3kW Heating Ceiling Cassette Inverter type Split Unit, complete with controls and accessories.</u> | | | |
| 5.1.3 | Supply | No | 1 | |
| 5.1.4 | Install | No | 1 | |
| | <u>Office-2: 2.5kW Cooling Capacity and 2.8kW Heating Capacity High Wall Inverter type Split Unit, complete with controls and accessories.</u> | | | |
| 5.1.5 | Supply | No | 1 | |
| 5.1.6 | Install | No | 1 | |
| | Carried forward | | | |
| | Bill No. 1 | | | |
| | HVAC (PROVISIONAL) | | | |
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| | | <u>Office 3: 2.5kW Cooling Capacity and 2.8kW Heating Capacity High Wall Inverter type Split Unit, complete with controls and accessories.</u> | | | | |
| 5.1.7 | Supply | No | 1 | | | |
| 5.1.8 | Install | No | 1 | | | |
| | | <u>Open Plan Office: 5.3kW Cooling Capacity and 5.3kW Heating Ceiling Cassette Inverter type Split Unit, complete with controls and accessories.</u> | | | | |
| 5.1.9 | Supply | No | 1 | | | |
| 5.1.10 | Install | No | 1 | | | |
| | | <u>Office 4: 2.5kW Cooling Capacity and 2.8kW Heating Highwall Inverter type Split Unit, complete with controls and accessories.</u> | | | | |
| 5.1.11 | Supply | No | 1 | | | |
| 5.1.12 | Install | No | 1 | | | |
| | | <u>Office 5: 2.5kW Cooling Capacity and 2.8kW Heating Highwall Inverter type Split Unit, complete with controls and accessories.</u> | | | | |
| 5.1.13 | Supply | No | 1 | | | |
| 5.1.14 | Install | No | 1 | | | |
| | | <u>Board Room 1: 5.3kW Cooling Capacity and 5.3kW Heating Ceiling Cassette Inverter type Split Unit, complete with controls and accessories.</u> | | | | |
| 5.1.15 | Supply | No | 1 | | | |
| 5.1.16 | Install | No | 1 | | | |
| | | <u>Office 6: 2.5kW Cooling Capacity and 2.8kW Heating Highwall Inverter type Split Unit, complete with controls and accessories.</u> | | | | |
| 5.1.17 | Supply | No | 2 | | | |
| | | Carried forward | | | R | |
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| | | | |
|--------|---|----|-----|
| | Brought forward | | R |
| 5.1.18 | Install | No | 2 |
| | <u>Board Room 2: 5.3kW Cooling Capacity and 5.3kW Heating Ceiling Cassette Inverter type Split Unit, complete with controls and accessories.</u> | | |
| 5.1.19 | Supply | No | 2 |
| 5.1.20 | Install | No | 2 |
| | <u>EXISTING RELAY(CONTROLS) BUILDING</u> | | |
| | <u>AIR CONDITIONING</u> | | |
| | Split Inverter Type Air Conditioning Pricing shall include Refrigerant Pipes. | | |
| | Air Conditioning Indoor Unit and Outdoor Units. | | |
| | Split Inverter Type. | | |
| | <u>7.1kW Cooling Capacity and 8kW Heating Highwall Inverter type Split Unit, complete with controls and accessories.</u> | | |
| 5.1.21 | Supply | No | 2 |
| 5.1.22 | Install | No | 2 |
| | <u>Condensate Drain Pipes, & Condensate Pipes</u> | | |
| | <u>Highwall Split Unit Condensate drain Pump at 1500mm Head.</u> | | |
| 5.1.23 | Supply | No | 20 |
| 5.1.24 | Install | No | 20 |
| 5.1.25 | Supply and install 32mm diameter condensate pipe | m | 115 |
| 5.1.26 | Supply and install 25mm diameter condensate pipe | m | 135 |
| | | | |
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Electrical Work

5.1.27 Electrical installation and wiring, etc, complete for Indoor and outdoor air conditioning units including local starter/ isolator switch and Thermostat(Wall Mounted) for all Indoor Units

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| | <u>SECTION NO. 6</u> | | | |
| | <u>BILL NO. 1</u> | | | |
| | <u>CONVENTIONAL FIRE PROTECTION SYSTEM</u> | | | |
| | <u>FIRE FIGHTING EQUIPMENT (PROVISIONAL)</u> | | | |
| | All rates supplied in this bill of quantities shall be deemed to include scaffolding to any height and fixing piping up to roof height. | | | |
| | <u>FIRE HYDRANTS</u> | | | |
| 6.1.1 | Supply and install Right Angle Tamperproof Hydrant with 100mm Storz Outlet and 100mm Female BSP Inlet. Spindle Square: - 16mm (SABS1128) (Installation downstream of water meter connection). | No | 1 | |
| 6.1.2 | Supply and install 100mm FxF (Female x Female) Full Bore BSP Brass Ball Valve | No | 1 | |
| 6.1.3 | Supply and install Cast Iron Wafer Check Valve with Ductile Iron or 316 Stainless Steel. Double Doors and EPDM Seal. This valve assembly downstream of the suction hydrant to be encased in a 600mm x 480mm medium grade cast iron manhole with frame for access for maintenance. | No | 3 | |
| 6.1.4 | Supply and install 100mm Two-Port Booster with 65mm Brass Booster Connectors, Pressure Gauge with 100mm T/16 Inlet encased in a steel cover with front open. Pressure gauge Dial to read up to 2500kPa. | No | 1 | |
| 6.1.5 | Supply and install 80mm x 65mm Cast Iron Right Angle Tamperproof Hydrant with Single Lug. Instantaneous Outlet and 80mm Male BSP Inlet. Hand wheel type hydrants are not acceptable. | No | 4 | |
| | Carried forward | | | |
| | Bill No. 1 | | | |
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HOSE REEL

- | | | | |
|-------|--|---|---|
| 6.1.6 | Supply and install 30 Metre Hose Reel complete with 25mm Chromium plated Shut-off valve, Aluminium Nozzle, Hose Guide and angle iron fixing bracket. | m | 5 |
|-------|--|---|---|

FIRE EXTINGUISHER

- | | | | |
|-------|---|----|---|
| 6.1.7 | Supply and install 4.5kg Dry Chemical Powder (DCP) Type portable fire extinguisher complete with steel mounting bracket and 100mm W x 600mm L polished & varnished Meranti Hardwood Backing board plugged in wall behind. | No | 7 |
| 6.1.8 | Supply and install 5kg Carbon dioxide (CO2) Type portable fire extinguisher complete with steel mounting bracket and 100mm W x 600mm L polished & varnished Meranti Hardwood Backing board plugged in wall behind. | No | 3 |

SIGNAGE

- | | | | |
|--------|--|----|----|
| 6.1.9 | ABS signage in accordance with SANS 1186 for external twin fire booster connection incorporating the pictographs in the standard 290mm x 290mm module size fixed on a purpose made triangular steel support such that the sign is visible from the two sides along the road. The mounting height to be ± 2000 mm above finished ground level. | No | 3 |
| 6.1.10 | Photoluminescent signage and warning notices in accordance with SANS 1186 Parts 1 & 5 incorporating the pictographs in the standard 190mm x 190mm module size encased in Aluminium metal frames with chamfered edges mechanically and securely fixed to walls or roof slabs or ceiling hung in stainless steel chain or wire. Strictly NO double sided tape or silicone sealing of statutory signage is allowed. Signs shall be a single sign along its width and not multiple individual signs. | No | 28 |

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| 6.1.11 | <p>ABS signage in accordance with SANS 1186 for external raised fire hydrants incorporating the pictographs in the standard 290mm x 290mm module size fixed on a purpose made triangular steel support such that the sign is visible from the two sides along the viewing two sides. The mounting height to be ±2000mm above finished ground level.</p> <p><u>EXTERNAL FIRE PIPING RETICULATION - BELOW GROUND (BY OTHERS)</u></p> <p>High Pressure HDPE Type IV PE 80 Class 16 pipes to SANS 4427:2008 used in conjunction with electro fusion and butt weld fittings or compression fittings or Victaulic Takstubs suitable for below-ground applications for the conveyance of potable water in reticulation systems in which continuous temperatures in excess of 25°C are not encountered.</p> <p>All piping rates supplied shall include couplings, bends, tees, sockets, pipe supports, anchors, along the running length, wrap (denso or similar), backfilling and compaction.</p> | No | 4 | |
| 6.1.12 | <p>Ø110mm High pressure pipe laid in ground not exceeding 1000mm deep.</p> | m | 522 | |
| 6.1.13 | <p>Ø110mm HDPE to 100mm Galvanised steel pipe connector</p> | No | 12 | |
| 6.1.14 | <p>Ø50mm High pressure pipe laid in ground not exceeding 1000mm deep.</p> | m | 16 | |
| | Carried forward | | | R |
| <p>Bill No. 1 FIRE FIGHTING EQUIPMENT (PROVISIONAL) PRASA Prepared By SIST Consortium</p> | | | | |

| Brought forward | | | R |
|--|------------------------------------|----|----|
| <u>INTERNAL FIRE PIPING RETICULATION</u> | | | |
| All above-ground firewater pipes shall be Medium Grade Galvanised Steel to SANS 62-1:2013 for nominal sizes from 25mm up to and including 150mm. All pipes and fittings shall be installed strictly in accordance with the manufacturer's specifications, and recommendations. Pipes shall be colour coded in accordance with the requirements of SANS 10140 Identification Colour Markings - Part 3: 2017 Contents of Pipelines or similar approved in close liaison with with the Fire Engineer. | | | |
| <u>Medium Grade Steel Pipes</u> | | | |
| 6.1.15 | 100mm diameter pipes | m | 22 |
| 6.1.16 | 100mm 90 deg elbow, SANS 509 | No | 12 |
| 6.1.17 | 100mm 45 deg elbow, SANS 509 | No | 8 |
| 6.1.18 | 100mm x 100mm x 80mm Tee, SANS 509 | No | 5 |
| 6.1.19 | 80mm diameter pipes | m | 16 |
| 6.1.20 | 80mm 90 deg elbow, SANS 509 | No | 6 |
| 6.1.21 | 32mm diameter pipes | m | 82 |
| 6.1.22 | 32mm 90 deg elbow, SANS 509 | No | 28 |
| 6.1.23 | 32mm x 32mm x 32mm Tee, SANS 509 | No | 26 |
| 6.1.24 | 32mm to 25mm reducer | No | 22 |
| 6.1.25 | 25mm diameter pipes | m | 76 |
| 6.1.26 | 25mm 90 deg elbow, SANS 509 | No | 22 |
| 6.1.27 | 25mm 45 deg elbow, SANS 509 | No | 8 |
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