

Item No	Quantity	Rate	Amount
<u>SECTION NO. 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<p>The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described to be read in conjunction with the Contract Data issued with the tender.</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described</p> <p>The contractor is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause</p> <p>The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p>			
Carried to Collection			R
Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES			

PREAMBLES FOR TRADES

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained

Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles

The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications

TENDERER'S SELECTIONS

Before submission of his tender the contractor is to complete the tenderer's selections in the contract data for organs of state and other public sector bodies

STRUCTURE OF THIS PRELIMINARIES BILL

Section A : A recital of the headings of the individual clauses in the aforementioned JBCC Principal Building Agreement

Section B : A recital of the headings of the individual clauses in the aforementioned JBCC General Preliminaries

Section C : Any special clauses to meet the particular circumstances of the project

Carried to Collection

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

R

PRICING OF PRELIMINARIES

Should the contractor select Option A in the contract data for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

PRICING OF BILLS OF QUANTITIES

The contractor is 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 packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement.

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 contractor's omission to price any item will be entertained

Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

VALUE ADDED TAX

Provision is made in the summary page of these bills of quantities / lump sum document for the inclusion of Value Added Tax (VAT)

SECTION A: PRINCIPAL BUILDING AGREEMENT

INTERPRETATION

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

A1.0 - Definitions and interpretations

Clause 1.0

- 1 ADVERSE WEATHER CONDITIONS: Adverse weather and inclement weather has the same meaning and used interchangeably and means any weather conditions i.e.: Rain, wind, snow, frost, temperature (cold or heat) that are not in the norm for the area where the construction takes place and during which no work is possible on site

- 2 AGREEMENT: The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representative or representatives of the parties

- 3 CONSTRUCTION PERIOD: The period commencing on the date of possession of the site by the contractor and ending on the date of practical completion

- 4 CONTRACT PERIOD: The period commencing on the date of the letter of acceptance and ending on the date of final completion

- 5 COST FLUCTUATION shall mean contract price adjustment provision (CPAP) for the adjustment of fluctuation in the cost of labour, plant, material and goods as stated in the schedule

- 6 DEFAULT INTEREST: No Clause

- 7 GUARANTEE FOR CONSTRUCTION: A security in terms of the DPWI's Guarantee for Construction form/s, obtained by the contractor from an institution approved by the employer [CD]

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

- 8 INTEREST: The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999) as amended, calculated as simple interest, in respect of debts owing to the State, and will be the rate as published by the Minister of Justice and Correctional Services from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975) as amended, calculated as simple interest, in respect of debts owing by the State
- 9 LETTER OF ACCEPTANCE: The letter of formal acceptance of the Contractor's or Service Provider's Tender / Bid, issued and signed by the Employer
- 10 PAYMENT CERTIFICATE: A certificate issued at regular agreed intervals [CD] by the principal agent to the parties certifying the amount due and payable in terms of Clause 25.3
- 11 PRINCIPAL AGENT: The person or entity appointed by the employer and named in the contract data for organs of state and other public sector bodies. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by the employer's representative as named in the contract data for organs of state and other public sector bodies
- 12 TARGETED SUBCONTRACTORS: Subcontractors that must be appointed to a total of 30% or more of the contract sum, by the contractor, projects with a contract sum of the amount determined by the Minister in terms of the latest Preferential Procurement regulations, as may be amended from time to time.

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T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Clause 2.0 - Law, regulations and notices

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

	<p><u>Clause 3.0 - Offer an acceptance</u></p> <p><u>Clause 3.3</u></p> <p>13 This agreement shall come into force on the date of letter of acceptance and continue to be of force and effect until the end of the latent defects liability period [22.0] notwithstanding termination [29.0] or the certification of final completion [21.0] and final payment [25.0]</p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 4.0 - Cession and assignment</u></p> <p><u>Clause 4.2</u></p> <p>14 Ref Clause 6.7 [CD]</p> <p><u>Clause 4.3</u></p> <p>15 Where a contractor cedes any right or any monies due to or to become due under this agreement as security in favour of a financial institution, the prior written consent of the employer, which consent shall not be unreasonably withheld, must be obtained</p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 5.0 - Documents</u></p> <p><u>Clause 5.2</u></p> <p>16 The original signed agreement shall be held by the Employer</p>	<p>Item</p> <p>Item</p>		<p>R</p>
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>			

	<p>Electronic issue of drawings</p> <p>All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]</p> <p><u>Clause 5.4</u></p>			
17	<p>The Bills of Quantities shall not be used as a specification of material and goods or methods unless so instructed by the Principal Agent. The contractor may not use the Bills of Quantities for purpose of ordering material. All dimensions and quantities must be determined on site before ordering. In the event of discrepancy between the drawings and Bills of Quantity, the drawings shall take preference</p> <p><u>Clause 5.5</u></p>			
18	<p>The parties may publish or disclose on any platform only the contract scope and contract amount</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item		
19	<p>Clause 6.0 - Employer's agents</p> <p><u>Clause 6.5</u></p>			
20	<p>Where the principal agent and/or an agent fails to act or is unable to act or ceases to be the principal agent or an agent in terms of this agreement, the employer shall appoint another principal agent and/or an agent</p> <p><u>Clause 6.7</u></p>			
21	<p>In terms of the clauses listed hereunder, the employer has retained its authority and has not given a mandate to the principal agent, notwithstanding other provisions in the contract. The employer shall sign all documents in relation to clauses 4.2, 14.1.4, 14.4.1, 14.6, 15.1.4, , 15.4.1, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12</p>			
Carried to Collection				
<p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>			R	

F:..... V:.....

T:.....

Clause 7.0 - Design responsibility

Clause 7.2

22 Any design responsibility undertaken by a subcontractor shall not devolve on the contractor except for items that require specific component design and or compatibility design and or shop drawings and or the assembly thereof

F:..... V:.....

T:.....

Item

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

INSURANCES AND SECURITIES

Clause 8.0 - Works risk

Clause 8.4

23 The contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary

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Clause 9.0 - Indemnities

Clause 9.2.7

24 Physical loss or damage to an existing structure and the contents thereof where this agreement is for alterations or additions to an existing structure. Should such an event occur, the contractor shall forthwith give notice to the principal agent due to no fault of the contractor

Clause 9.2.9

25 No clause.

Clause 9.2.10

26 No clause.

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

27	<p><u>Clause 9.3</u></p> <p>The employer's rights to claim damages for the contractor's omissions and actions will not be affected.</p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 10.0 - Insurances</u></p> <p><u>Clause 10.1</u></p>	Item		
28	<p>The party responsible shall effect and keep the respective insurances [CD] in force, in favour of the employer as beneficiary , from the date of possession of the site until the issue of the certificate of practical completion and with an extension to cover the contractors obligations after the date of practical completion [8.2.2]</p>			
29	<p><u>Clause 10.1.5.1</u></p> <p>Hi Risk Insurance</p> <p>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>		R	

Clause 10.1.5.1.1

30 **Damage to the works**

The contractor shall, from the date of possession of the site until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary

When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs

Clause 10.1.5.1.2

31 **Injury to persons or loss of or damage to property**

The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above.

The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract.

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Clause 10.1.5.1.3

- 32 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the date of letter of acceptance, but before commencement of the works, submit to the employer proof of such insurance policy.

Clause 10.1.5.1.4

- 33 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole.

Clause 10.2

- 34 Where practical completion in sections is required [20.0), or where the works is for alterations and additions, the contractor shall effect and keep in force contract works insurance [10.1.1], supplementary insurance [10.1.2], public liability insurance [10.1.3] and where applicable, removal of lateral support insurance [10.1.4] and other insurances [10.1.5) in favour of the employer as beneficiary.

Clause 10.6

- 35 No clause.

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

36	<p><u>Clause 10.11</u></p> <p>In the event that an insurer dispute the amount of the claim to be paid to the employer, the contractor shall be liable to the employer for the difference between the claim (as determined by the employers QS appointed on the project) made by the employer and the amount that the insurer is willing to pay.</p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 11.0 - Securities</u></p> <p><u>Clause 11.1</u></p>			
37	<p>In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT).</p> <p>In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of C 1.0 Securities, as stated in the schedule. Such security shall be provided to the employer within fifteen (15) working days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within fifteen (15) working days from commencement date, the security in terms of C 1.0 Option C shall be deemed to have been selected.</p> <p>The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of clauses 25.12.1 - 25.12.5.</p> <p><u>Clause 11.1.1</u></p>	Item		
38	<p>No clause.</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>		R	

	<u>Clause 11.1.2</u>				
39	No clause.				
	<u>Clause 11.2.2</u>				
40	No clause.				
	<u>Clause 11.3</u>				
41	No clause.				
	<u>Clause 11.4.1</u>				
42	Hand over the site to the contractor and withhold an amount equal to ten per cent (10%) of each interim payment certificate until practical completion is achieved. The value certified shall be subject to the adjustments in terms of clauses 25.12.6 to 25.12.10.				
	<u>Clause 11.5</u>				
43	No clause.				
	<u>Clause 11.6</u>				
44	No clause.				
	<u>Clause 11.7</u>				
45	No clause.				
	<u>Clause 11.8</u>				
46	No clause.				
	<u>Clause 11.9</u>				
47	No clause.				
	<u>Clause 11.10</u>				
48	No clause.				
Carried to Collection				R	
Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES					

Clause 11.11

49 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:

Clause 11.11.1

50 The contractor shall furnish the employer with a cash deposit equal in value to ten percent (10%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to furnish the employer with a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

Clause 11.11.2

51 The employer shall be entitled to recover expense and loss from the cash deposit in terms of Clause 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor.

Clause 11.11.3

52 Within fifteen (15) working days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT) and refund the balance to the contractor

Clause 11.11.4

53 Within fifteen (15) working days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor.

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Clause 11.11.5

- 54 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor.

Clause 11.11.6

- 55 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party.

Clause 11.12

- 56 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:

Clause 11.12.1

- 57 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within fifteen (15) working days after issuance of the letter of acceptance. Failure to submit an acceptable variable construction guarantee within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

Clause 11.12.2

- 58 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender.

Carried to Collection

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

R

Clause 11.12.3

59 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring.

Clause 11.12.4

60 Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall issue a written demand in terms of the variable construction guarantee.

Clause 11.13

61 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:

Clause 11.13.1

62 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT).

Clause 11.13.2

63 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion.

Clause 11.13.3

64 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring.

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Clause 11.13.4

65 The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of clauses 25.12.1 - 25.12.5.

Clause 11.13.5

66 Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or from both.

Clause 11.14.1

67 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:

Clause 11.14.2

68 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to submit a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

Clause 11.14.3

69 Within fifteen (15) working days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor.

Clause 11.14.4

70 The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of clauses 25.12.1 - 25.12.5.

Carried to Collection

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

R

Clause 11.14.5

- 71 Where the employer has a right of recovery against the contractor in terms of 27, the employer may recover from the payment reduction or cash deposit or from both.

Clause 11.15

- 72 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected.

Clause 11.15.1

- 73 The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of clauses 25.12.6 to 25.12.10.

Clause 11.15.2

- 74 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor.

Clause 11.16

- 75 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement.

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

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Clause 12.2.2

- 82 The priced Bills must be submitted to the Employer within fourteen (14) calendar days from date of request. Where the priced document contains errors or discrepancies and/or prices considered by the employer or principal agent to be imbalanced or unreasonable the employer or principal agent and the contractor shall adjust such prices without any change to the contract sum.

Clause 12.2.5

- 83 Effect and keep in force insurances in favour of the employer as beneficiary where the contractor is responsible for providing insurances [10.0) [CD]

Clause 12.2.13

- 84 Designate a competent person full time on site to continuously administer and control the works on site and to receive and implement notices and contract instructions on behalf of the contractor.

Clauses 12.2.22

- 85 Within fourteen (14) working days of the date of the letter of acceptance submit to the principal agent an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).

Clause 12.2.23

- 86 The contractor shall within reasonable time inform the agents regarding inspection of the works before covering / closing [B 12.0]

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

87

Offices

The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times [12.2.18]

F:..... V:.....

T:.....

Item

88

Main notice board

The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering [12.2.18]

F:..... V:.....

T:.....

Item

Clause 13.0 - Setting out

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

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	<u>Clause 15.5</u>			
97	Ref Clause 6.7 [CD]			
	F:..... V:.....			
	T:.....	Item		
	<u>Clause 16.0 - Direct contractors</u>			
	F:..... V:.....			
	T:.....	Item		
	<u>Clause 17.0 - Contract instructions</u>			
98	Instructions issued on site are to be recorded in a site instruction book (triplicate) which is to be supplied and maintained on site by the contractor.			
	<u>Clause 17.4</u>			
99	The contractor shall comply with and duly execute all contract instructions except any contract instruction for additional work issued after the date of practical completion other than making good physical loss and repairing damage to the works in terms of 8.0 and 21.			
	<u>Clause 17.6</u>			
100	Minutes of meetings shall not constitute a site instruction unless reduced to a written contract instruction issued by the principal agent in terms of this contract / agreement.			
	F:..... V:.....			
	T:.....	Item		
	<p style="text-align: center;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>		R	

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Carried to Collection

R

- 103 (2)(b) Has not been satisfactorily completed, the principal agent shall forthwith identify the works completion list items that are not yet complete and inform the contractor thereof. The contractor shall repeat the procedure in terms of 19.8(2)
- (3) Should the principal agent not issue a works completion list, in terms of 19.8 (1) or 19.8 (2)(b), within seven (7) calendar days from the end of the inspection period, the contractor shall notify the employer and principal agent. Should the principal agent not issue such Works Completion list within seven (7) calendar days of receipt of such notice, the employer may within seven (7) calendar days issue to the contractor a Works Completion list. Should the employer:
- (3)(a) Not issue such works completion list within seven (7) calendar days, then the certificate of Works Completion shall be deemed to have been issued on the date of expiry of the initial notice period and works completion shall be deemed to have been achieved on such date
- (3b) Issue a works completion list and the work on Works Completion list not have been completed or where further defects have become apparent, the employer shall forthwith identify such items on the updated works completion list and notify the contractor. The contractor shall repeat the procedure in terms of 19.8(2)(b) until such items have been completed to the satisfaction of the employer
- (4) Should the works completion list not be completed to the satisfaction of the employer within a period of twenty one (21) working days of the issue first works completion list the contractor shall be liable to a daily penalty as described in B12.0
- (5) The defects liability period in terms of 21.1 shall commence with the issue or deemed issue of the certificate of Works Completion in terms of 19.8(2)(a) or 19.8(3)

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

	<u>Clause 20.0 - Completion in sections</u>			
	<u>Clause 20.2.1 A</u>			
104	A certificate of Works Completion [19.8] F:..... V:..... T:.....	Item		
	<u>Clause 21.0 - Defects liability period and final completion</u>			
	<u>Clause 21.1</u>			
105	The defects liability period for the works shall commence on the calendar day following the date of works completion and end at midnight (00:00) ninety (90) calendar days from the date of works completion [CD] or when work on the list for completion has been satisfactorily attended to [21.6), whichever is the later.			
	<u>Clause 21.6</u>			
106	On the expiry of the ninety (90) calendar days defects liability period [21.1] for items not indicated as items with an extended liability as indicated in B14 and on receipt of the contractor's notice to the principal agent And/or On the expiry of the defects liability period as indicated in B14, for items indicated in B14 and on receipt of the contractor's notice to the principal agent, the principal agent shall: (1) inspect the works And within ten (10) working days either issue a list for final completion detailing all outstanding work or defects that must be attended to, or rectified to achieve final completion or (2) issue the certificate of final completion to the contractor with a copy to the employer for that part of the works where defects liability period has expired			
	Carried to Collection			
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES		R	

[illegible]

Item

Clause 24.0 - Penalty for late or non-completion

Clause 24.1

118 Where the contractor fails to bring the works, or a section thereof, to practical-, works-, or final- completion by the applicable completion date [CD], or the revised applicable completion date, the contractor shall be liable to the employer for the penalty [CD]

Clause 24.2

119 Where the employer elects to levy such penalty the employer, or the principal agent on instruction from the employer, shall give notice thereof to the contractor. The principal agent shall determine the penalty due from the later of the date for practical- works-, or final- completion [CD], or the revised date for practical- works-, or final- completion, up to and including the earlier of:

Clause 24.2.1

120 The actual or deemed date of practical- works-, or final- completion, of the works, or a section thereof [23.7.1]

PAYMENT

Clause 25.0 - Payment

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Clause 25.2

121 The principal agent shall issue at regular agreed intervals [CD] payment certificates, to the contractor with a copy to the employer, up to and including practical completion. Interim Payment certificates may be issued to the contractor between practical completion and the final payment certificate. A payment certificate may be for a nil or negative amount.

Clause 25.3.12

122 Monthly Local content report.

Clause 25.3.13

123 EPWP / NYS payment register, labour reports and certified ID document of EPWP/ NYS beneficiaries, Contract between Contractor and EPWP/ NYS beneficiaries, attendance register. (if applicable)

Clause 25.3.14

124 Tax Invoice

Clause 25.3.15

125 Labour intensive report

Clause 25.3.16

126 Contract participation goal reports.

Clause 25.5

127 No clause.

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 26

25.12.5 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate.

(Clauses 25.12.6 to 25.12.10 shall be applicable to a contract sum more than R1 million for Option C (C 1.0 Securities [11.0])

25.12.6 Where security is a payment reduction in term of C 1.0 Option C, value of the works in terms of 25.1 and materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

25.12.7 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion

25.12.8 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion

25.12.9 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 26.

25.12.10 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Item

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

	<u>Clause 29.9</u>			
154	The employer has the right of recovery against the contractor, where applicable, [CD] from: The guarantee for construction (variable) until the final payment has been made; or The guarantee for construction (fixed) until the date of practical completion; or The payment reduction until the final payment is made; or The cash deposit made as security until the final payment is made			
	<u>Clause 29.14.1</u>			
155	No clause.			
	<u>Clause 29.14.3</u>			
156	No clause.			
	<u>Clause 29.14.4</u>			
157	No clause.			
	<u>Clause 29.14.5</u>			
158	No clause.			
	Carried to Collection		R	
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES			

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item

	<u>Clause 30.8.3</u>			
175	Regardless of the outcome of a mediation the parties shall bear their own costs concerning the Mediation and equally share the costs of the mediator and related expenses.			
	<u>Clause 30.9</u>			
176	Institution of Litigation shall be commenced and process served within three (3) year from the date of existence of the dispute, failing which the dispute shall lapse			
	<u>Clause 30.10</u>			
177	No clause.			
	<u>Clause 30.12</u>			
178	No clause.			
	F:..... V:.....			
	T:.....	Item		
	<u>SECTION B: GENERAL PRELIMINARIES</u>			
	<u>DEFINITIONS AND INTERPRETATION</u>			
	<u>Clause 1.1 - Definitions</u>			
	F:..... V:.....			
	T:.....	Item		
	<u>Clause 1.2 - Interpretation</u>			
	F:..... V:.....			
	T:.....	Item		
	<u>DOCUMENTS</u>			
	Carried to Collection		R	
	Section No. 1			
	PRELIMINARIES			
	Bill No. 1			
	PRELIMINARIES			

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

<p><u>Clause 3.3 - Inspection of adjoining properties</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>THE SITE</u></p> <p><u>Clause 4.1 - Handover of site in stages</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 4.2 - Enclosure of the works</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 4.3 - Geotechnical and other investigations</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 4.4 - Encroachments</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 4.5 - Existing premises occupied</u></p> <p>F:..... V:.....</p> <p>T:.....</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>	<p>R</p>
<p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>	<p>Carried to Collection</p>	<p></p>

Clause 4.6 - Services - known

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
 PRELIMINARIES
 Bill No. 1
 PRELIMINARIES

<p><u>MANAGEMENT OF CONTRACT</u></p> <p><u>Clause 5.1 - Management of the works</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 5.2 - Progress meetings</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 5.3 - Technical meetings</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>SAMPLES, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS</u></p> <p><u>Clause 6.1 - Samples of materials</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 6.2 - Workmanship samples</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Clause 6.3 - Shop drawings</u></p> <p>F:..... V:.....</p> <p>T:.....</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>		<p>R</p>
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Clause 6.4 - Compliance with manufacturer's instructions

F:..... V:.....

T:.....

DEPOSITS AND FEES

Clause 7.1 - Deposits and fees

F:..... V:.....

T:.....

TEMPORARY SERVICES

Clause 8.1 - Water

F:..... V:.....

T:.....

Clause 8.2 - Electricity

F:..... V:.....

T:.....

Clause 8.3 - Ablution and welfare facilities

F:..... V:.....

T:.....

Clause 8.4 - Communication facilities

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Carried to Collection

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Item

Item

Item

Item

Item

Item

R

PRIME COST AMOUNTS

Clause 9.1 - Responsibility for prime cost amounts

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
 PRELIMINARIES
 Bill No. 1
 PRELIMINARIES

ATTENDANCE ON SUBCONTRACTORS

Clause 10.1 - General attendance

- 181 The contractor shall at his own expense provide the following general attendance on the subcontractors:
- Access to the site and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor
- The provision of water and lighting and single phase electric power to a position within 50 metres of the place where the subcontract work is to be carried out but excluding water, fuel and power for commissioning of any installation
- The provision of an area for the subcontractor to establish temporary office accommodation and workshops and for the storage of plant and materials
- The use of erected scaffolding belonging to the contractor, in common with others having the like right, while it remains erected on the site
- The use, at reasonable times by arrangement of the contractor's erected hoisting equipment

F:..... V:.....

T:.....

Item

- 182 Clause 10.2 - Special attendance

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

GENERAL

Clause 11.1 - Protection of the works

F:..... V:.....

T:.....

Item

Clause 11.2 - Protection/isolation of existing works and works occupied in sections

F:..... V:.....

T:.....

Item

Clause 11.3 - Security of the works

F:..... V:.....

T:.....

Item

Clause 11.4 - Notice before covering work

F:..... V:.....

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Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Clause 11.5 - Disturbance

All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever.

The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent.

F:..... V:.....

T:.....

Item

Item

Clause 11.6 - Environmental disturbance

F:..... V:.....

T:.....

Item

Clause 11.7 - Works cleaning and clearing

F:..... V:.....

T:.....

Item

Clause 11.8 - Vermin

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Clause 11.9 - Overhand work

F:..... V:.....

T:.....

Item

Clause 11.10 - Tenant installations

F:..... V:.....

T:.....

Item

Clause 11.11 - Advertising

F:..... V:.....

T:.....

Item

SECTION C: SPECIFIC PRELIMINARIES

CONTRACT DRAWINGS

183 The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

PREAMBLES

- 184 The document "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" is obtainable on the Department's website (<http://www.publicworks.gov.za/> under "Consultants Guidelines"), and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used
- The document "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" is issued together with the drawings and shall be read in conjunction with the drawings and the bills of quantities

F:..... V:.....

T:.....

Item

TRADE NAMES

- 185 Wherever a trade name for any product has been described in the bills of quantities, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders
- If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

IMPORTED MATERIALS AND EQUIPMENT

186 Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)

F:..... V:.....

T:.....

Item

VIEWING THE SITE IN SECURITY AREAS

187 The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

COMMENCEMENT OF WORKS IN SECURITY AREAS

- 188 As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account

F:..... V:.....

T:.....

Item

ENTRANCE PERMITS TO SECURITY AREAS

- 189 As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

F:..... V:.....

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Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

SECURITY CHECK OF PERSONNEL

- 190 The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified
- In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works
- F:..... V:.....
- T:.....

Item

PROHIBITION ON TAKING OF PHOTOGRAPHS

- 191 In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister
- The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959
- F:..... V:.....
- T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

HIV/AIDS AWARENESS

192 It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

AWARENESS CHAMPION

193 Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

F:..... V:.....

T:.....

Item

AWARENESS WORKSHOPS

194 Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

	F:..... V:..... T:.....	Item		
	<u>POSTERS, BOOKLETS, VIDEOS, ETC.</u>			
195	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification F:..... V:..... T:.....	Item		
	<u>ACCESS TO CONDOMS</u>			
196	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification F:..... V:..... T:.....	Item		
	<u>MONITORING</u>			
197	Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification F:..... V:..... T:.....	Item		
	<u>OCCUPATIONAL HEALTH AND SAFETY ACT</u>			
198	The contractor shall comply with all the requirements as set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) It is required of the contractor to thoroughly study the			
	Carried to Collection		R	
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES			

Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document

The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

The contractor shall:

1. Comply with the health and safety specification for the works
2. Prepare and agree with the health and safety consultant the health and safety plan for the works
3. Cooperate with the health and safety consultant in all respects
4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification
5. Conform to the conditions contained in the employer's health and safety specification
6. It is required of the contractor to thoroughly study the Health and Safety Specification (Part C) that must be read together with the SHEQ BOQ (Part C) which is to be priced and is deemed to be incorporated under this Section of the bills of quantities.

Carried to Collection

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

R

	<p>F:..... V:.....</p> <p>T:.....</p> <p><u>EMPLOYMENT AND TRAINING OF YOUTH WORKERS ON THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) INFRASTRUCTURE PROJECTS: NATIONAL YOUTH SERVICE (NYS)</u></p>	Item		
199	<p>The contractor shall comply with all the requirements as set out in the “Additional Specification SL: Employment and Training of Youth Workers on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service (NYS)” as attached to these bills of quantities / lump sum document</p> <p>The contractor shall identify a minimum number of youth workers from a priority list, and shall employ them at the statutory labour rates for a minimum period and train them, all as per the aforementioned specification and as elsewhere measured in these bills of quantities / lump sum document</p> <p>The contractor shall liaise and co-ordinate with the employer and the EPWP Training Service Provider with regard to the priority list, the selection of youth workers, and the employment and training of the identified youth workers</p> <p>The contractor shall avail the services of an adequately qualified foreman specifically for the EPWP-NYS youth workers, to act as their construction supervisor. The foreman will be responsible for continually monitoring the progress of the youth workers and for addressing questions and issues that may arise from the youth workers</p>			
200	<p>Separate items which will be subject to remeasurement have been included elsewhere in these bills of quantities / lump sum document to cover the direct costs associated with the employment and training of the youth workers. Any additional requirements in respect of the aforementioned specification are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>		R	

	F:..... V:..... T:.....	Item		
	<u>IMPLEMENTATION OF LABOUR-INTENSIVE INFRASTRUCTURE PROJECTS UNDER THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP)</u>			
201	<p>The contractor shall comply with all the requirements of the "Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes" issued in terms of the "Basic Conditions of Employment Act, 1997 (Act No 75 of 1997)" and the related "Ministerial Determination", for the employment of locally employed temporary workers on a labour-intensive infrastructure project under the Expanded Public Works Programme (EPWP)</p> <p>The contractor shall maintain daily records with regard to the workers employed and shall, on a monthly basis, submit a report to the principal agent in the prescribed format. Compulsory indicators such as the project budget, actual project expenditure, number of job opportunities created, demographic characteristics of workers employed, minimum daily wage rate, number of person-days of employment created and number of training person-days, shall be included in said report, all as defined in the "Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)"</p> <p>Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p>	Item		
	F:..... V:..... T:.....			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>		R	

**WARRANTIES FOR MATERIALS AND
WORKMANSHIP**

- 202 Warranties for materials and workmanship
- Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract
- The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so
- 203 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.

F:..... V:.....

T:.....

Item

OVERTIME

- 204 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

F:..... V:.....

T:.....

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

COST MANAGEMENT

205 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

F:..... V:.....

T:.....

Item

OVERLOADING

206 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

F:..... V:.....

T:.....

Item

PROPPING

207 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

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

F:..... V:.....

T:.....

TESTING FOR WATERTIGHTNESS TO FLAT ROOFS

Item

Item

F:..... V:.....

T:.....

Section No. 1

PRELIMINARIES

Bill No. 1

PRELIMINARIES

Carried to Collection

R

209	<p><u>ADVERTISING RIGHTS</u></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. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement</p> <p>F:..... V:.....</p> <p>T:.....</p>			
210	<p><u>CONFIDENTIALITY</u></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:.....</p> <p>T:.....</p>	Item		
211	<p><u>MEDIA RELEASES</u></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>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>		R	

F:..... V:.....

T:.....

SUMMARY OF CATEGORIES

212 Category : Fixed R.....

Category : Value R.....

Category : Time R.....

Item

Carried to Collection

R

Section No. 1
 PRELIMINARIES
 Bill No. 1
 PRELIMINARIES

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

Section No. 1			
PRELIMINARIES			
Bill No. 1			
PRELIMINARIES			
<u>COLLECTION</u>			
	Page No		Amount
Brought Forward		R	
Total Brought Forward from Page No.	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		
	32		
	33		
	34		
	35		
	36		
	37		
Carried Forward		R	
Section No. 1			
PRELIMINARIES			
Bill No. 1			
PRELIMINARIES			

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

Section No. 1			
PRELIMINARIES			
Bill No. 1			
PRELIMINARIES			
<u>COLLECTION</u>			
	Page No		Amount
Brought Forward		R	
Total Brought Forward from Page No.	38		
	39		
	40		
	41		
	42		
	43		
	44		
	45		
	46		
	47		
	48		
	49		
	50		
	51		
	52		
	53		
	54		
	55		
Carried Forward		R	
Section No. 1			
PRELIMINARIES			
Bill No. 1			
PRELIMINARIES			

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.1</u></p> <p><u>FOUNDATIONS</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"</p> <p><u>Excavation for working space in rock</u></p> <p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be</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>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 1</p> <p>Foundations</p>			

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Soil poisoning

Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent

EXCAVATION, FILLING, ETC

Excavation in earth not exceeding 2m deep

1	Trenches	m3	4,382
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 832 B : 0 C : 189 D : 280		
	E : 0 F : 2119 G : 121 H : 114		
	I : 0 J : 0 K : 306 L : 0		
	M : 0 N : 420 O : 0 W : 0		
	X : 0		

Extra over trench and hole excavations in earth for excavation in

2	Soft rock	m3	592
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 250 B : 342 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

3	Hard rock	m3	287
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 228 C : 7 D : 5		
	E : 0 F : 0 G : 24 H : 23		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

R

Extra over all excavations for carting away

4	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	2,944		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 451 B : 592 C : 135 D : 145				
	E : 0 F : 1093 G : 61 H : 58				
	I : 0 J : 0 K : 170 L : 0				
	M : 0 N : 238 O : 0 W : 0				
	X : 0				

Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	13,807		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 2081 B : 2852 C : 473 D : 700				
	E : 0 F : 5297 G : 303 H : 286				
	I : 0 J : 0 K : 765 L : 0				
	M : 0 N : 1051 O : 0 W : 0				
	X : 0				

Keeping excavations free of water

6	Keeping excavations free of all water other than subterranean water		Item		
---	---	--	------	--	--

Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density

7	Backfilling to trenches, holes, etc	m3	2,805		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 475 B : 828 C : 82 D : 119				
	E : 0 F : 903 G : 53 H : 50				
	I : 0 J : 0 K : 120 L : 0				
	M : 0 N : 175 O : 0 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

8	Under floors, steps, paving etc. <div> <div>1 : 0 2 : 0 4 : 0 7 : 0</div> <div>A : 641 B : 0 C : 279 D : 207</div> <div>E : 0 F : 2701 G : 29 H : 87</div> <div>I : 0 J : 0 K : 146 L : 0</div> <div>M : 0 N : 657 O : 0 W : 0</div> <div>X : 0</div> </div> <p><u>Compaction of surfaces</u></p>	m3	4,747	
9	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 <div> <div>1 : 0 2 : 0 4 : 0 7 : 0</div> <div>A : 1425 B : 2304 C : 620 D : 459</div> <div>E : 0 F : 6003 G : 63 H : 194</div> <div>I : 0 J : 0 K : 324 L : 0</div> <div>M : 0 N : 1461 O : 0 W : 0</div> <div>X : 0</div> </div> <p><u>Prescribed density tests on filling</u></p>	m2	12,853	
10	"Modified AASHTO Density" test <div> <div>1 : 0 2 : 0 4 : 0 7 : 0</div> <div>A : 30 B : 30 C : 5 D : 10</div> <div>E : 0 F : 50 G : 5 H : 10</div> <div>I : 0 J : 0 K : 10 L : 0</div> <div>M : 0 N : 10 O : 0 W : 0</div> <div>X : 0</div> </div> <p><u>SOIL POISONING</u></p> <p>All soil poisoning and insecticide to be applied under a <i>five year</i> guarantee by an approved firm of Specialists. Soil insecticides shall comply with <i>SABS Specification 1165</i>. Work shall be carried out in accordance with "The application of soil insecticides for the protection of buildings" - <i>SABS Code of Practice 0124</i></p> <p>Casting of concrete floors to start within 24 hours after the application of soil poisoning</p>	No	160	
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 BUILDING WORKS Bill No. 1 Foundations</p>				R

Pest control applicators must provide :

1. Proof of pesticides and insecticides (data sheets)
2. Toxicants must be registered with the Departement of

Agriculture

2. Proof that they are qualified to perform the work
3. Five year guarantee certificate

Soil insecticide

11	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	12,853
	<div>1 : 0 2 : 0 4 : 0 7 : 0</div> <div>A : 1425 B : 2304 C : 620 D : 459</div> <div>E : 0 F : 6003 G : 63 H : 194</div> <div>I : 0 J : 0 K : 324 L : 0</div> <div>M : 0 N : 1461 O : 0 W : 0</div> <div>X : 0</div>		

12	To bottoms and sides of trenches etc	m2	17,056
	<div>1 : 0 2 : 0 4 : 0 7 : 0</div> <div>A : 2570 B : 3523 C : 584 D : 865</div> <div>E : 0 F : 6544 G : 374 H : 353</div> <div>I : 0 J : 0 K : 945 L : 0</div> <div>M : 0 N : 1298 O : 0 W : 0</div> <div>X : 0</div>		

CONCRETE, FORMWORK AND REINFORCEMENT

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25MPa/19mm concrete

13	Strip footings	m3	331
	<div>1 : 0 2 : 0 4 : 0 7 : 0</div> <div>A : 8 B : 0 C : 39 D : 58</div> <div>E : 0 F : 29 G : 25 H : 24</div> <div>I : 0 J : 0 K : 63 L : 0</div> <div>M : 0 N : 87 O : 0 W : 0</div> <div>X : 0</div>		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

R

14	<p>Column bases</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 1</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p> <p><u>ROUGH FORMWORK (DEGREE OF ACCURACY)</u></p> <p><u>Fabric reinforcement</u></p>	m3	1		
15	<p>Type 193 fabric reinforcement in concrete surface beds, slabs, etc</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 1425 B : 2304 C : 620 D : 459</p> <p>E : 0 F : 6003 G : 63 H : 194</p> <p>I : 0 J : 0 K : 324 L : 0</p> <p>M : 0 N : 1461 O : 0 W : 0</p> <p>X : 0</p> <p><u>TEST CUBES</u></p>	m2	12,853		
16	<p>Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.</p> <p>1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0</p> <p>A : 0.0 B : 0.0 C : 5.0 D : 10.0</p> <p>E : 0.0 F : 0.0 G : 5.0 H : 10.0</p> <p>I : 0.0 J : 0.0 K : 10.0 L : 0.0</p> <p>M : 0.0 N : 20.0 O : 0.0 W : 0.0</p> <p>X : 0.0</p>	Sets	60.0		
Carried to Collection					
<p>Section No. 2 BUILDING WORKS Bill No. 1 Foundations</p>					R

[illegible]

Mild steel reinforcement to structural concrete work

20	8mm Diameter bars	t	3.26		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 0.00 B : 0.90 C : 0.09 D : 0.08				
	E : 0.00 F : 0.00 G : 0.09 H : 0.80				
	I : 0.00 J : 0.00 K : 0.50 L : 0.00				
	M : 0.00 N : 0.80 O : 0.00 W : 0.00				
	X : 0.00				

21	10mm Diameter bars	t	3.96		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 0.15 B : 0.24 C : 0.08 D : 0.05				
	E : 0.00 F : 1.98 G : 0.08 H : 0.60				
	I : 0.00 J : 0.00 K : 0.08 L : 0.00				
	M : 0.00 N : 0.70 O : 0.00 W : 0.00				
	X : 0.00				

High tensile steel reinforcement to structural concrete work

22	12mm Diameter bars	t	5.00		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 1.05 B : 0.00 C : 1.00 D : 1.00				
	E : 0.00 F : 0.00 G : 0.10 H : 0.30				
	I : 0.00 J : 0.00 K : 0.35 L : 0.00				
	M : 0.00 N : 1.20 O : 0.00 W : 0.00				
	X : 0.00				

23	16mm Diameter bars	t	3.30		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 1.80 B : 0.00 C : 0.69 D : 0.81				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 0.00				

BRICKWORK

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

Brickwork of "Corobrik Imperial NFXE" or similar approved 20Mpa nominal compressive strength bricks in class II mortar

24	Half brick walls	m2	620
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 46 B : 131 C : 26 D : 29		
	E : 0 F : 177 G : 0 H : 0		
	I : 0 J : 0 K : 134 L : 0		
	M : 0 N : 78 O : 0 W : 0		
	X : 0		

25	One brick walls	m2	3,795
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 995 B : 1295 C : 194 D : 321		
	E : 0 F : 0 G : 152 H : 143		
	I : 0 J : 0 K : 248 L : 0		
	M : 0 N : 447 O : 0 W : 0		
	X : 0		

BRICKWORK SUNDRIES

Joint forming material in movement joints:

26	12mm Fibre board built in vertically between brick skins.	m2	1,262
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 141 B : 282 C : 50 D : 94		
	E : 0 F : 386 G : 21 H : 34		
	I : 0 J : 0 K : 67 L : 0		
	M : 0 N : 187 O : 0 W : 0		
	X : 0		

Brickwork reinforcement

27	75mm wide reinforcement built in horizontally.	m	1,883
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 133 B : 389 C : 127 D : 86		
	E : 0 F : 522 G : 0 H : 0		
	I : 0 J : 0 K : 396 L : 0		
	M : 0 N : 231 O : 0 W : 0		
	X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

R

28	150mm Wide reinforcement built in horizontally	m	11,203	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 2938 B : 3823 C : 572 D : 950			
	E : 0 F : 0 G : 447 H : 421			
	I : 0 J : 0 K : 732 L : 0			
	M : 0 N : 1319 O : 0 W : 0			
	X : 0			

FACE BRICKWORK

"Corobrik Imperial FBX" or similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500.00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints

29	Extra over brickwork for face brickwork	m2	1,845	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 468 B : 0 C : 167 D : 255			
	E : 0 F : 0 G : 120 H : 113			
	I : 0 J : 0 K : 304 L : 0			
	M : 0 N : 417 O : 0 W : 0			
	X : 0			

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</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 and to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 2</p> <p>Concrete, Formwork and Reinforcement</p>			

Formwork

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

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

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

Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

UNREINFORCED CONCRETE

20MPa/19mm concrete

1	Surface beds cast in panels on waterproofing.	m3	1,028
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 214 B : 346 C : 93 D : 69		
	E : 0 F : 0 G : 9 H : 29		
	I : 0 J : 0 K : 49 L : 0		
	M : 0 N : 219 O : 0 W : 0		
	X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

R

2	<p>Extra over concrete for thickening size 150mm deep 200mm top and tapering to 100mm at bottom including all excavation to 100mm backfilling etc.</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 585 B : 762 C : 114 D : 189 E : 0 F : 1454 G : 89 H : 84 I : 0 J : 0 K : 146 L : 0 M : 0 N : 263 O : 0 W : 0 X : 0</p> <p><u>REINFORCED CONCRETE</u></p> <p><u>25MPa/19mm concrete</u></p>	m	3,686		
3	<p>Slabs including beams and inverted beams</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 20 B : 0 C : 0 D : 2 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p>	m3	22		
4	<p>Concrete Infill.</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 9 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p> <p><u>30MPa/19mm concrete</u></p>	m3	9		
5	<p>Slabs including beams and inverted beams</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 20 B : 0 C : 0 D : 2 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 34 O : 0 W : 0 X : 0</p>	m3	56		
Carried to Collection					
<p>Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement</p>					R

6	Columns		m3	4	
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 4	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 0				
7	Ramps.		m3	76	
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 22	B : 11	C : 7	D : 4	
	E : 0	F : 19	G : 1	H : 2	
	I : 0	J : 0	K : 3	L : 0	
	M : 0	N : 7	O : 0	W : 0	
	X : 0				
8	Plinths.		m3	3	
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 3				
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>					
9	Surface beds, slabs, etc		m2	11,950	
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 1425	B : 2304	C : 620	D : 0	
	E : 0	F : 6003	G : 0	H : 137	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 1461	O : 0	W : 0	
	X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

R

Finishing top surfaces of concrete smooth with a wood float

10	Surface beds, slabs, etc	m2	3,248		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 459				
	E : 0 F : 596 G : 63 H : 194				
	I : 0 J : 0 K : 324 L : 0				
	M : 0 N : 1597 O : 0 W : 0				
	X : 15				

SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth formwork to sides

11	Rectangular columns exceeding 3,5m and not exceeding 5,0m above bearing level	m2	9		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 9				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

SMOOTH FORMWORK (DEGREE OF ACCURACY II)

Smooth formwork to soffits

12	Slabs exceeding 250mm thick and not exceeding 500mm thick	m2	218		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 72 B : 0 C : 0 D : 7				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 139 O : 0 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

TEST CUBES

13	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith. (Provisional)	Sets	170.0		
	1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0				
	A : 30.0 B : 30.0 C : 5.0 D : 10.0				
	E : 0.0 F : 50.0 G : 5.0 H : 10.0				
	I : 0.0 J : 0.0 K : 10.0 L : 0.0				
	M : 0.0 N : 20.0 O : 0.0 W : 0.0				
	X : 0.0				

MOVEMENT JOINTS ETC

Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces

14	15mm Joints exceeding 300mm high (Provisional)	m	483		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 59 B : 77 C : 15 D : 17				
	E : 0 F : 104 G : 28 H : 27				
	I : 0 J : 0 K : 26 L : 0				
	M : 0 N : 131 O : 0 W : 0				
	X : 0				

Saw cut joints

15	Saw cut joints in top of concrete (Provisional)	m	1,252		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 59 B : 154 C : 25 D : 34				
	E : 0 F : 692 G : 31 H : 23				
	I : 0 J : 0 K : 23 L : 0				
	M : 0 N : 212 O : 0 W : 0				
	X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

R

DIVIDING STRIPS, ETC.

16	6 x 38mm Angle iron step guard cast into concrete with 3 x 6mm anchors	m	308		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 27 B : 75 C : 25 D : 17				
	E : 0 F : 152 G : 12 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

REINFORCEMENT

**High tensile steel reinforcement to structural
concrete work**

17	20mm Diameter bars	t	0.36		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 0.36 B : 0.00 C : 0.00 D : 0.00				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 0.00				
18	16mm Diameter bars	t	2.10		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 2.10 B : 0.00 C : 0.00 D : 0.00				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 0.00				
19	12mm Diameter	t	3.06		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 3.06 B : 0.00 C : 0.00 D : 0.00				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 0.00				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

R

20	10mm Diameter bars	t	2.00		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 1.80 B : 0.00 C : 0.00 D : 0.20				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 0.00				
	<u>Mild steel reinforcement to structural concrete work</u>				
21	8mm Diameter bars	t	1.60		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 1.50 B : 0.00 C : 0.00 D : 0.10				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 0.00				
22	10mm Diameter bars	t	2.70		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 2.40 B : 0.00 C : 0.00 D : 0.30				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 0.00				
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement					

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</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>Linings to concrete</u></p> <p>Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><u>Reinforced brick lintels</u></p> <p>Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 3</p> <p>Masonry</p>			

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site.

General

Window surrounds shall be built into brick walls and pointed all round on both sides with 10 x 10mm square recessed joints

Prices shall include for building in as single units or combinations in patterns of two or more window units and for bedding solid all round in mortar and pointing

Note

Aluminium infill windows, glazing and pointing with sealing compound are measured elsewhere

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

1	Piers					m3	34
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 6	B : 0	C : 0	D : 7			
	E : 0	F : 0	G : 21	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 0						

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

2	L-shaped piers	m3	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 6 B : 0 C : 0 D : 2				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
3	Half brick walls	m2	1,260		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 92 B : 260 C : 51 D : 58				
	E : 0 F : 353 G : 0 H : 0				
	I : 0 J : 0 K : 237 L : 0				
	M : 0 N : 209 O : 0 W : 0				
	X : 0				
4	One brick walls in beamfilling.	m2	2,410		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 369 B : 480 C : 72 D : 119				
	E : 0 F : 916 G : 56 H : 71				
	I : 0 J : 0 K : 117 L : 0				
	M : 0 N : 210 O : 0 W : 0				
	X : 0				
5	One brick walls	m2	15,628		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 2662 B : 3467 C : 519 D : 860				
	E : 0 F : 4929 G : 515 H : 382				
	I : 0 J : 0 K : 495 L : 0				
	M : 0 N : 1799 O : 0 W : 0				
	X : 0				
6	345mm Hollow walls of a one brick skins and a half brick skins including vertical twist type wall ties (LI)	m2	46		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 46 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

R

BRICKWORK SUNDRIES

7	Closing 345mm cavity of hollow wall vertically with brickwork one brick and half brick wide	m	24
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 24 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

Joint forming material in movement joints:

8	12mm Bitumen impregnated fibre board built in vertically between brick skins not exceeding 300mm wide.	m2	1,034
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 59 B : 154 C : 30 D : 51		
	E : 0 F : 432 G : 33 H : 84		
	I : 0 J : 0 K : 146 L : 0		
	M : 0 N : 46 O : 0 W : 0		
	X : 0		

Brickwork reinforcement

9	75mm Wide reinforcement built in horizontally	m	8,371
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 1363 B : 920 C : 496 D : 521		
	E : 0 F : 3752 G : 0 H : 0		
	I : 0 J : 0 K : 700 L : 0		
	M : 0 N : 617 O : 0 W : 0		
	X : 0		

10	150mm Wide reinforcement built in horizontally	m	46,739
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 7850 B : 10231 C : 1664 D : 2537		
	E : 0 F : 14544 G : 1520 H : 1127		
	I : 0 J : 0 K : 1960 L : 0		
	M : 0 N : 5307 O : 0 W : 0		
	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

	<u>Turning pieces</u>				
11	230mm Wide turning piece to lintels etc 1 : 0 2 : 0 4 : 0 7 : 0 A : 108 B : 230 C : 45 D : 114 E : 0 F : 426 G : 23 H : 71 I : 0 J : 0 K : 117 L : 0 M : 0 N : 210 O : 0 W : 0 X : 0	m	1,345		
	<u>"Allied Concrete" prestressed fabricated lintels</u>				
12	110 x 75mm Lintels in lengths not exceeding 3m (Provisional) 1 : 0 2 : 0 4 : 0 7 : 0 A : 108 B : 230 C : 45 D : 114 E : 0 F : 1454 G : 23 H : 71 I : 0 J : 0 K : 117 L : 0 M : 0 N : 210 O : 0 W : 0 X : 0	m	2,373		
13	110 x 75mm lintels in lengths exceeding 3m and not exceeding 4,5m. 1 : 0 2 : 0 4 : 0 7 : 0 A : 18 B : 33 C : 0 D : 13 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 263 O : 0 W : 0 X : 0	m	327		
14	110 x 75mm lintels in lengths exceeding 4,5m and not exceeding 6m. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 49 O : 0 W : 0 X : 0	m	49		
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 3 Masonry					R

Galvanised wire ties etc

15	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork (Provisional)	No	3,086		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 487 B : 972 C : 264 D : 201				
	E : 0 F : 644 G : 24 H : 84				
	I : 0 J : 0 K : 146 L : 0				
	M : 0 N : 264 O : 0 W : 0				
	X : 0				

Air Bricks

16	Set of two 222 x 155mm terra-cotta vermin proof air bricks above each other with gauze backing and building into opening in brickwork in cement mortar	No	51		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 27 B : 0 C : 0 D : 24				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

FACE BRICKWORK

"Corobrik Imperial FBX" or similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints

17	Extra over brickwork for face brickwork	m2	14,407		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 2662 B : 3467 C : 564 D : 860				
	E : 0 F : 4362 G : 515 H : 285				
	I : 0 J : 0 K : 495 L : 0				
	M : 0 N : 1197 O : 0 W : 0				
	X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

R

18	Extra over for facing in piers, including bonding and pointed with recesses joints on all exposed faces	m2	172		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 55 B : 0 C : 0 D : 33				
	E : 0 F : 0 G : 85 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
19	Extra over for facings in beamfilling for face brickwork	m2	1,996		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 369 B : 48 C : 78 D : 119				
	E : 0 F : 916 G : 71 H : 67				
	I : 0 J : 0 K : 117 L : 0				
	M : 0 N : 210 O : 0 W : 0				
	X : 0				
20	Fair cutting and fitting around pipe not exceeding 100mm diameter (Provisional)	No	201		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 18 B : 48 C : 0 D : 4				
	E : 0 F : 110 G : 1 H : 4				
	I : 0 J : 0 K : 7 L : 0				
	M : 0 N : 9 O : 0 W : 0				
	X : 0				
21	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	178		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 12 B : 24 C : 0 D : 3				
	E : 0 F : 110 G : 1 H : 2				
	I : 0 J : 0 K : 8 L : 0				
	M : 0 N : 18 O : 0 W : 0				
	X : 0				
22	Fair raking cutting	m	673		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 92 B : 86 C : 29 D : 33				
	E : 0 F : 174 G : 12 H : 42				
	I : 0 J : 0 K : 73 L : 0				
	M : 0 N : 132 O : 0 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

23	<p>Fair cutting to both sides at mitred squint quoin or birdsmouth angles</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 63 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 33 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 23 O : 0 W : 0</p> <p>X : 0</p> <p><u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R7 500,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u></p>	m	119		
24	<p>Extra over brickwork for brick-on-edge header course lintel</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 585 B : 762 C : 114 D : 189</p> <p>E : 0 F : 538 G : 21 H : 71</p> <p>I : 0 J : 0 K : 117 L : 0</p> <p>M : 0 N : 522 O : 0 W : 0</p> <p>X : 0</p> <p><u>Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u></p>	m	2,919		
25	<p>220mm Wide sill set sloping and slightly protecting outside</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 585 B : 762 C : 114 D : 189</p> <p>E : 0 F : 538 G : 21 H : 71</p> <p>I : 0 J : 0 K : 117 L : 0</p> <p>M : 0 N : 522 O : 0 W : 0</p> <p>X : 0</p>	m	2,920		
26	<p>Coping on top of one brick wall</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 72 B : 141 C : 98 D : 73</p> <p>E : 0 F : 624 G : 21 H : 69</p> <p>I : 0 J : 0 K : 32 L : 0</p> <p>M : 0 N : 46 O : 0 W : 0</p> <p>X : 0</p>	m	1,176		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

R

	<u>Fair arches, recesses, etc</u>			
27	Extra for building brickwork to oversailing wall with each course projecting 115mm	m2	43	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 8			
	E : 0 F : 0 G : 18 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 17 O : 0 W : 0			
	X : 0			
	<u>STONE CLADDING, ETC</u>			
	<u>Reclaimed dry wall cladding stonework dry stacked in 3:1 concealed cement mortar bed by specialist</u>			
28	Linings to brickwork, stacked into position as per Architect instruction	m2	1,036	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 1036			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 0			
	<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>			
	<u>Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.</u>			
29	15mm x 150mm Wide sills set flat and slightly projecting	m	2,920	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 585 B : 762 C : 114 D : 189			
	E : 0 F : 538 G : 21 H : 71			
	I : 0 J : 0 K : 117 L : 0			
	M : 0 N : 522 O : 0 W : 0			
	X : 0			

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u> <u>BUILDING WORK</u> <u>BILL NO.4</u> <u>WATERPROOFING</u> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Waterproofing</u> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <u>DAMP-PROOFING OF WALLS AND FLOORS</u> <u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
1	In walls <div style="display: flex; justify-content: space-between;"> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>A : 138</div> <div>B : 184</div> <div>C : 32</div> <div>D : 46</div> </div> <div style="display: flex; justify-content: space-between;"> <div>E : 0</div> <div>F : 347</div> <div>G : 21</div> <div>H : 19</div> </div> <div style="display: flex; justify-content: space-between;"> <div>I : 0</div> <div>J : 0</div> <div>K : 43</div> <div>L : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>M : 0</div> <div>N : 66</div> <div>O : 0</div> <div>W : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>X : 0</div> <div></div> <div></div> <div></div> </div>	m2	895	
	Carried to Collection			
	Section No. 2 BUILDING WORKS Bill No. 4 Waterproofing			

R

One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"

2	Under surface beds	m2	12,949		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 1425 B : 2304 C : 717 D : 459				
	E : 0 F : 6002 G : 63 H : 194				
	I : 0 J : 0 K : 324 L : 0				
	M : 0 N : 1461 O : 0 W : 0				
	X : 0				

WATERPROOFING TO WALLS, FLOORS ETC

4mm "Derbigum SP" fully bonded waterproofing

3	On shower floors	m2	356		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 324 G : 0 H : 13				
	I : 0 J : 0 K : 19 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

4	On balcony floors	m2	137		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 11				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 126 O : 0 W : 0				
	X : 0				

5	Additional membrane at 50mm diameter outlet	No	12		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 12 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 4
Waterproofing

R

WATERPROOFING TO ROOFS, DECKS ETC.

Note:

Waterproofing to roofs, etc. must be done by an approved firm of specialists in this type of work and must be carried out in accordance with the manufacturer's instructions.

The Contractor must provide a ten year guarantee in favour and acceptable to the Employer for this work and deposit same with the Principal Agent before the work is put in hand.

**Derbigum Or Other Approved Waterproofing
Comprising Priming Surface Of Substrater And 3mm
Thick Derbigum SP Or Other Approved
Waterproofing Laid With 75mm Wide Side Laps And
100mm Wide End Laps With Waterproofing Sealed
To Screed And At Laps By Portion On Fusion**

6	On concrete slabs including turnups, etc.	m2	72
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 72 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		
7	Vertical and horizontal surfaces of plastered brickwork and concrete beam.	m2	21
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 21 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		
8	Allow for carrying out flood test to all areas	Item	

PROTECTIVE ROOF PAINT

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 4
Waterproofing

R

Two coats "Silvakote" bituminous aluminium paint

9	Two coats Roofcote or other approved bituminous based aluminium paint on waterproofing.	m2	249		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 93 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 156 O : 0 W : 0				
	X : 0				

JOINT SEALANTS ETC

Silicone sealing compound including backing cord, bond breaker, primer, etc

10	6 x 10mm In expansion joints including raking out of expansion joint filler as necessary (Provisional)	m	881		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 33 B : 154 C : 30 D : 17				
	E : 0 F : 290 G : 15 H : 32				
	I : 0 J : 0 K : 17 L : 0				
	M : 0 N : 293 O : 0 W : 0				
	X : 0				

"Bostic" silicone sealing compound including primer, etc

11	10mm In joints between ceramic lavatory basin and glazed wall tiles	m	574		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 12 B : 77 C : 0 D : 17				
	E : 0 F : 352 G : 4 H : 14				
	I : 0 J : 0 K : 42 L : 0				
	M : 0 N : 56 O : 0 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 4
Waterproofing

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.5</u></p> <p><u>ROOF COVERINGS ETC</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched</p> <p>Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use</p> <p><u>Sizes</u></p> <p>All items are measured net unless otherwise described</p> <p><u>Flashings, trimming plates, etc.</u></p> <p>Prices to include for all cutting and waste and relevant fixing material, unless otherwise described</p> <p>All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable</p> <p>All items are unless otherwise described measured net</p> <p><u>PROFIED METAL SHEETING AND ACCESSORIES</u></p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 5</p> <p>Roof Coveringss, etc</p>			

0,55mm "Global Roofing Solutions 700mm cover Klip-Tite" galvanised troughed sheeting steel Z200 spelter ISQ 550 "Chromadek - Traffic Green" finish on one side, topcoat and pebble frey backing coat roof sheeting in single lengths fixed to 76 x 50mm purlins or rails and 0,55mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions

1	Roof covering with pitch not exceeding 50 degrees	m2	15,540		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 1710 B : 2765 C : 860 D : 551				
	E : 0 F : 7204 G : 76 H : 233				
	I : 0 J : 0 K : 389 L : 0				
	M : 0 N : 1753 O : 0 W : 0				
	X : 0				
2	Ridge capping 550mm girth	m	916		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 41				
	E : 0 F : 630 G : 89 H : 84				
	I : 0 J : 0 K : 72 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
3	Hip capping 550mm girth	m	72		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 8				
	E : 0 F : 64 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
4	Valley gutter 550mm girth 4 times bent	m	96		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 96 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 5
Roof Coveringss, etc

	<u>"Natrallite code ECORIB-CLR" or similar approved IBR Polycarb clear sheeting with 90% light transmission fixed to the timber purlins with 75mm durofast fasteners</u>			
5	Roof coverings with pitches to 10 degrees	m2	304	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 168 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 136 O : 0 W : 0 X : 0			
	<u>0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to 76 x 50mm purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions</u>			
6	Roof covering with pitch not exceeding 10 degrees	m2	16	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 16 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0			
	<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>			
	<u>0,8mm Galvanised sheet iron with "colomet" finish on one side</u>			
7	Side wall flashing 550mm girth	m	69	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 61 B : 0 C : 0 D : 8 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 5
Roof Coverings, etc

ROOF AND WALL INSULATION

"Alucushion Bubblefold" double-sided aluminium foil faced insulation installed strictly as per manufacturer's instruction

8	70mm Thick insulation boards fixed concurrent with roof covering etc.	m2	15,556		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 1710	B : 2765	C : 860	D : 551	
	E : 0	F : 7202	G : 77	H : 249	
	I : 0	J : 0	K : 389	L : 0	
	M : 0	N : 1753	O : 0	W : 0	
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 5
Roof Coveringss, etc

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 6</p> <p>Capentry and Joinery</p>			

PREFABRICATED ROOF TRUSSES

Pre-fabricated metal connected timber roof trusses

All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction

Timber

Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460

Bolts

Bolts shall be in accordance with BS 4190 or SABS 135

Shear plates, tooth connectors and split rings

Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"

Washers

Square or round washers of the following dimensions shall be used with all bolts:

- 1 Bolts up to 8mm diameter:
Washers shall be minimum 25mm wide of minimum 2,50mm thickness
- 2 Bolts up to 12mm diameter:
Washers shall be minimum 36mm wide of minimum 4,00mm thickness
- 3 Bolts up to 20mm diameter:
Washers shall be minimum 60mm wide of minimum 5,00mm thickness

Metal connector plates

Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

R

The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m2 commercial class hot dipped galvanising as per SABS 934 before stamping

All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report

Truss construction

Trusses shall be constructed in jigs specially designed to ensure the correct profile, overhangs and cambers

Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint

Truss design

All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")

Truss spacing

The truss centres shall be less than or equal to that as described in this bill for each respective truss

Truss pitch

The truss pitch shall be as described in this bill for each respective truss type

Truss loading

Trusses shall be designed for a live load of 0,50kN/m2 and dead load as specified under the sub-heading "Specific load specifications for roof trusses"

Shop drawings, design and erection guarantee certificates

It will be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Representative/Agent in respect of the required shop drawings, design and erection guarantee certificates as specified

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

R

Dimensions

All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences

Erection

All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction and the CSIR, or the SABS Code of Practice "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer

Design system

The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system

However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent

Specific specifications for roof trusses

Unless otherwise described, the following specifications will apply:

- 1 All trusses to be with a 10° pitch
- 2 The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres

ROOFS

The following in plate nailed timber roof truss construction

The following is applicable in respect of roof trusses

The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

R

Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)

Allow for the preparation and submission of the following documents in respect of all buildings

- | | | | |
|---|--|------|--|
| 1 | Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication | Item | |
| 2 | Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc. | Item | |
| 3 | Erection guarantee certificate after the whole completed roof trusses structures have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent | Item | |

Sawn softwood

- | | | | |
|---|---|----|---|
| 4 | Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for adminstration block approximately 420m2 on plan (Refer to architect's drawings attached to these bills of quantities) | No | 1 |
| | <div style="display: flex; flex-wrap: wrap;"> <div style="width: 25%;">1 : 0</div> <div style="width: 25%;">2 : 0</div> <div style="width: 25%;">4 : 0</div> <div style="width: 25%;">7 : 0</div> <div style="width: 25%;">A : 0</div> <div style="width: 25%;">B : 0</div> <div style="width: 25%;">C : 0</div> <div style="width: 25%;">D : 1</div> <div style="width: 25%;">E : 0</div> <div style="width: 25%;">F : 0</div> <div style="width: 25%;">G : 0</div> <div style="width: 25%;">H : 0</div> <div style="width: 25%;">I : 0</div> <div style="width: 25%;">J : 0</div> <div style="width: 25%;">K : 0</div> <div style="width: 25%;">L : 0</div> <div style="width: 25%;">M : 0</div> <div style="width: 25%;">N : 0</div> <div style="width: 25%;">O : 0</div> <div style="width: 25%;">W : 0</div> <div style="width: 25%;">X : 0</div> </div> | | |
| 5 | Roof construction to mono pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, rafters etc. for classroom block approximately 442m2 on plan (Refer to architect's drawings attached to these bills of quantities) | No | 4 |
| | <div style="display: flex; flex-wrap: wrap;"> <div style="width: 25%;">1 : 0</div> <div style="width: 25%;">2 : 0</div> <div style="width: 25%;">4 : 0</div> <div style="width: 25%;">7 : 0</div> <div style="width: 25%;">A : 0</div> <div style="width: 25%;">B : 3</div> <div style="width: 25%;">C : 0</div> <div style="width: 25%;">D : 0</div> <div style="width: 25%;">E : 0</div> <div style="width: 25%;">F : 0</div> <div style="width: 25%;">G : 0</div> <div style="width: 25%;">H : 0</div> <div style="width: 25%;">I : 0</div> <div style="width: 25%;">J : 0</div> <div style="width: 25%;">K : 0</div> <div style="width: 25%;">L : 0</div> <div style="width: 25%;">M : 0</div> <div style="width: 25%;">N : 0</div> <div style="width: 25%;">O : 0</div> <div style="width: 25%;">W : 0</div> <div style="width: 25%;">X : 1</div> </div> | | |

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

6	Roof construction to mono pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, rafters etc. for two classroom block approximately 220m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	4
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 3 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 1		
7	Roof construction to mono pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, rafters etc. for Workshop block approximately 579m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	2
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 1 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 1		
8	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for Hostel approximately 1458m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	2
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 2 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

9	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for Guard House approximately 55m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 1 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
10	Roof construction to mono pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for Staff Accomodation approximately 272m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 1 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
	<u>SUNDRY ROOF TIMBERS</u>				
	<u>Sawn softwood grade 4</u>				
11	38 x 114mm Wall plates	m	2,120		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 108 B : 264 C : 57 D : 108				
	E : 0 F : 1454 G : 17 H : 42				
	I : 0 J : 0 K : 70 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
12	50 x 220mm Timber Beam	m	896		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 66 B : 132 C : 46 D : 108				
	E : 0 F : 485 G : 0 H : 27				
	I : 0 J : 0 K : 32 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
	Carried to Collection				
	Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery				R

<u>Wrought laminated timber (architectural finish)</u>								
13	70 x 228mm Beams, pergola beams, with splayed ends etc, bolted	m	730					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 730 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 0 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 0							
	X : 0							
14	76 x 76mm Splayed eaves purlins	m	324					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 324 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 0 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 0							
	X : 0							
15	12mm x 1m Threaded Rod	No	62					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 0 H : 62							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 0							
	X : 0							
16	12mm Nuts	No	240					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 0 H : 240							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 0							
	X : 0							
17	12mm Washers and Spring washers	No	240					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 0 H : 240							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 0							
	X : 0							
Carried to Collection								
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery							R	

18	6 x 75mm Long wood screws	kg	5		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 5				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
19	6 x 60mm Long wood screws	kg	5		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 5				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
	<u>Roof Sundries</u>				
	<u>Sundries</u>				
20	"Hurricane clip" between truss and purlins (Provisional)	No	4,588		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 672 B : 1344 C : 464 D : 472				
	E : 0 F : 1454 G : 84 H : 0				
	I : 0 J : 0 K : 98 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
21	Two coats wood preservative applied hot on sawn or wrot timbers before fixing	m2	11,286		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 1320 B : 2304 C : 620 D : 459				
	E : 0 F : 6002 G : 63 H : 194				
	I : 0 J : 0 K : 324 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
	Carried to Collection				
	Section No. 2				
	BUILDING WORKS				
	Bill No. 6				
	Capentry and Joinery				
				R	

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

	<u>Wrought meranti</u>				
25	19 x 76mm Skirting including 19mm quadrant bead nailed	m	359		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 148 B : 0 C : 0 D : 189				
	E : 0 F : 0 G : 22 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
	<u>DOORS, ETC</u>				
	<u>40mm Thick full solid core Flush panel single door leaf with hardboard faces suitable for painting and edges to match all to comply with S.A.B.S 545</u>				
26	Single Door Type DS54A 900 x 2032mm high	No	50		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 50				
	X : 0				
	<u>40mm Thick Semi-solid Medium Duty flush panel door leaf with Masonite veneer faces suitable for painting and edges to match veneer.</u>				
27	Single Door Type DS73B 813 x 2032mm high	No	54		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 54				
	X : 0				
	Carried to Collection				
	Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery			R	

28	Single Door Type DS54B 914 x 2032mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 39 X : 0	No	39		
29	Single Door Type DA52H 900 x 2032mm high with 300 x 300mm glass viewing panel 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 2 X : 0	No	2		
30	Single Door Type DS12H 636 x 2093mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 24 X : 0	No	24		
31	Single Door Type DS13H 436 x 2093mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 1 X : 0	No	1		
32	Single Door Type DS23B 813 x 2032mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 12 X : 0	No	12		
Carried to Collection				R	
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery					

33	<p>Single Door Type DS24C 900 x 2032mm high with 300 x 300mm viewing panel</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 2 X : 0</p> <p><u>40mm Thick Medium Duty flush panel door leafs with masonite veneer faces suitable for painting and edges to match veneer With rebated meeting styles.</u></p>	No	2		
34	<p>Double Door Type DS75A size 1359 x 2032mm high</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 2 X : 0</p>	No	2		
35	<p>Double Door Type DS77A size 1613 x 2032mm high</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 7 X : 0</p> <p><u>40mm Thick Solid Meranti Framed, ledged and braced batten door leafs with veneer on inside face suitable for painting or varnishing as per finishing schedule. With rebated meeting styles.</u></p>	No	7		
36	<p>Double Door Type DS77B size 1613 x 2032mm high</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 9 X : 0</p>	No	9		
Carried to Collection				R	
<p>Section No. 2 BUILDING WORKS Bill No. 6 Carpentry and Joinery</p>					

**40mm Thick Purpose Made Semi-solid Medium Duty
flush panel door leaf with masonite veneer faces
suitable for painting and edges to match veneer.**

37	Single Door Type DS74A 914 x 2032mm high	No	220	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 220			
	X : 0			

38	Single Door Type DW03A 813 x 1980mm high	No	12	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 12			
	X : 0			

**40mm Thick Solid Meranti Framed, ledged and
braced batten door leafs with veneer on inside face**

39	Single Door Type DS24A 900 x 2032mm high	No	66	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 66			
	X : 0			

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R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

<u>'Bitcon' or similar approved 2mm thick GMS (Coastal) or MS (Inland) pressed steel frame with double rebate complete with lugs and base ties as supplied by manufacturer suitable for 230mm Fire Wall.</u>							
40	"Bitcon" Class B Fire Door Single Door and Frame Type DF52G size 900 x 2000mm high			No	3		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 3			
	X : 0						
	<u>FITTINGS</u>						
	Interior carcasses, shelves, bottoms, etc to be 16mm thick interior grade particle board with white "Melamine" decorative laminate to all exposed surfaces. All exposed edges to be fitted with 3.2mm thick white "Masonite" edge strips. Carcasses to be fitted at back with 6mm thick white "Masonite" backing.						
	All exposed carcasses, sides, etc to be 16mm thick interior grade particle board with "Vancouver Maple Melamine" decorative laminate to all exposed surfaces. All exposed edges to be fitted with 3.2mm thick "Vancouver Maple Masonite" edge strips.						
	Kickplates to be 16mm thick interior grade particle board with "Supawood Renolite" decorative laminate to all exposed surfaces.						
	Doors to be 16mm thick interior grade particle board with two long postformed vertical edges with "Supawood or Melamine Renolite" decorative laminate on all surfaces.						
	Floor units to be supplied and installed complete with tops and kickplates						
	Tops of floor units to be 32mm thick particle board with one long postformed leading edge and laminated with 1mm "Vancouver Maple Formica" high pressure decorative laminate. Tops for floor units have been measured seperately						
	Carried to Collection					R	
	Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery						

All butt edges and edges against walls to be sealed with silicone sealant. Hinges to be "Hettich" type and drawer runners to be of 500mm long metal type "FR602" with nylon runners and minimum 100 000 cycle test guarantee quality and load capacity of 30kg. All units to supplied and installed complete with approved handles, hinges and other ironmongery.

The following joinery fittings have been measured as complete units, i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc

- 41 Type FU-900 Mahogany Floor cupboard size 900mm long x 570mm wide x 900mm high overall, including cut-out for sink (Sink elsewhere measured).

No 38

1 : 0	2 : 0	4 : 0	7 : 0
A : 6	B : 12	C : 0	D : 2
E : 0	F : 12	G : 0	H : 6
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

- 42 Type FU-900 Mahogany Under counter double cupboard size 900mm long x 570mm wide x 900mm high overall,

No 19

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 12	G : 0	H : 1
I : 0	J : 0	K : 6	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

43 Type W-600 Mahogany wall cupboard size 600mm long
x 570mm wide x 600mm high overall,

No

2

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 2
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

44 Type W-900 Mahogany wall cupboard size 900mm long
x 300mm wide x 730mm high overall,

No

4

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 4	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

45 Type WU-900 Mahogany Wall cupboard size 900mm
long x 570mm wide x 900mm high overall,

No

16

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 14
E : 0	F : 0	G : 0	H : 2
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

46 Type WU-700 Mahogany Wall cupboard size 700mm
long x 570mm wide x 900mm high overall,

No

1

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 1
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

47	Type WU-460 Mahogany Wall cupboard size 460mm long x 570mm wide x 900mm high overall, 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 1 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	1		
48	Type FD-450 Mahogany Floor Drawer cupboard size 450mm long x 570mm wide x 900mm high overall, 1 : 0 2 : 0 4 : 0 7 : 0 A : 6 B : 12 C : 0 D : 5 E : 0 F : 4 G : 0 H : 2 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	29		
49	Type FD-600 Mahogany Floor Drawer cupboard size 600mm long x 570mm wide x 900mm high overall, 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 4 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	4		
50	Type FU-450 Mahogany Floor cupboard size 450mm long x 570mm wide x 900mm high overall, 1 : 0 2 : 0 4 : 0 7 : 0 A : 18 B : 36 C : 0 D : 16 E : 0 F : 2 G : 0 H : 2 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	74		
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery					R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

51	Type FU-600 Mahogany Floor cupboard size 600mm long x 570mm wide x 900mm high overall, 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 4 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	4		
52	Type TU-1200 Mahogany Tall Storage Cupboard size 1200mm long x 600mm wide x 2420mm high overall, 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 8 G : 0 H : 0 I : 0 J : 0 K : 4 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	12		
53	Type TU-1800 Mahogany Tall Storage Cupboard size 1800mm long x 600mm wide x 2420mm high overall, 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 2 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	2		
54	Type TU-1000 Mahogany Tall Storage Cupboard size 1000mm long x 600mm wide x 2420mm high overall, 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 5 I : 0 J : 0 K : 2 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	7		
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery					R

55	Type TU-900 Mahogany Tall Storage Cupboard size 900mm long x 600mm wide x 1800mm high overall, 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 100 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	100		
56	Wall Hung Book Shelving unit size 1200mm long x 400mm wide x 762mm high overall, positioned as per Architect specification 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 178 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	178		
57	Shelving unit type size 5989mm long x 450mm wide x 2100mm high overall, of 5 rows of standard 450mm deep white epoxy powder coated with steel wall band brackets and wall bands positioned as per Architect specification 1 : 0 2 : 0 4 : 0 7 : 0 A : 12 B : 24 C : 16 D : 18 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	70		
58	Shelving unit type size 4015mm long x 450mm wide x 2100mm high overall, of 5 rows of standard 450mm deep white epoxy powder coated with steel wall band brackets and wall bands positioned as per Architect specification 1 : 0 2 : 0 4 : 0 7 : 0 A : 12 B : 24 C : 16 D : 18 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	70		
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 6 Carpentry and Joinery					R

59 Shelving unit type size 900mm long x 450mm wide x 2100mm high overall, of 5 rows of standard 450mm deep white epoxy powder coated with steel wall band brackets and wall bands positioned as per Architect specification

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 1	D : 4
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

No

5

60 Shelving unit type size 1600mm long x 450mm wide x 2100mm high overall, of 5 rows of standard 450mm deep white epoxy powder coated with steel wall band brackets and wall bands positioned as per Architect specification

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 4	D : 4
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

No

8

61 Shelving unit type size 3250mm long x 450mm wide x 2100mm high overall, of 5 rows of standard 450mm deep white epoxy powder coated with steel wall band brackets and wall bands positioned as per Architect specification

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 4	D : 2
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

No

6

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

62	Shelving unit type size 4650mm long x 450mm wide x 2100mm high overall, of 5 rows of standard 450mm deep white epoxy powder coated with steel wall band brackets and wall bands positioned as per Architect specification	No	12		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 4 D : 8				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
63	Solid Jon Shelving unit type size 4640mm long x 450mm wide x 2100mm high overall,	No	4		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 4				
	X : 0				
64	Island Heavy Duty Shelving unit size 914mm long x 450mm wide x 2000mm high overall,	No	24		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 24 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
65	Pigeon hole shelves size 1765mm long x 455mm wide x 1018mm high overall constructed out of laminated solid 22mm x 455mm PAR pine sanded and varnished with timber cleats fixed to wall.	No	32		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 6 B : 12 C : 0 D : 14				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery				R	

66	<p>Floor book an display unit size 1862mm long x 600mm wide x 2400mm high overall with bottom part consisting of 22mm Thick veneer faced flush panelled doors with Solid hardwood edges. Allow for 1 internal shelf either side. Doors to be lockable and have Brass Piano Hinges.Handles to be Brass type "D" handles.Cupboard carcass to be made from 22mm Thick Veneer faced Chipboard with Solid hardwood edges.Top doors consist of toughened safety glass framed with 75mm wide x 19mm thick hardwood frames. Allow for 4x 22mm Thick veneered faced shelves with hardwood front edging to cupboards either side. Doors to be lockable and have Brass Piano Hinges.Handles to be Brass type "D" handles.</p>	No	24
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 12 B : 0 C : 0 D : 12</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>		
67	<p>Slatted Benches made up of 38 x 38 x 5mm galvanised angle iron sections and bracing at 500mm cc max, bolted to wall with 3 x 100mm long expanding bolts, size 1500mm long x 415mm wide x 400mm high overall and apply two coats polyurethane varnish on timber members and apply undercoat & two coats of gloss enamel on steel members</p>	No	6
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 6 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

68 Slatted Benches made up of 38 x 38 x 5mm galvanised angle iron sections and bracing at 500mm cc max, bolted to wall with 3 x 100mm long expanding bolts, size 3500mm long x 415mm wide x 400mm high overall and apply two coats polyurethane varnish on timber members and apply undercoat & two coats of gloss enamel on steel members

No

2

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 2
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

69 Slatted Benches made up of 38 x 38 x 5mm galvanised angle iron sections and bracing at 500mm cc max, bolted to wall with 3 x 100mm long expanding bolts, size 1200mm long x 415mm wide x 400mm high overall and apply two coats polyurethane varnish on timber members and apply undercoat & two coats of gloss enamel on steel members

No

2

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 2 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

FURNITURE

70 Office Desk size 1600 x 900 x 750mm high with three lockable drawers

No

4

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 4
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

71 Office Desk size 1600 x 900 x 750mm high with no drawers

No

16

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 16
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

72 Connecting corner size 900 x 500mm

No

2

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 2
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

73 Credenza with sliding door size 1000 x 500 x 750mm high

No

2

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 2
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

74 4 Seater executive round meeting table

No

2

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 2
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

75	Boardroom table size 4400mm long x 1500mm wide x 900mm high overall. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 1 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	1		
76	High back swivel and tilt chair with 5-star base, gas height adjustment 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 2 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	2		
77	Low back swivel and tilt chair with armrest skid base 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 4 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	4		
78	Economy upholstered side chair with arms 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 20 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	20		
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery					R

79	Visitors chairs with low back sleigh base	No	12		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 12				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
80	Stationery cupboards size 1000 x 500 x 1500mm high with two doors and 3 shelves	No	12		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 12				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
81	Two seater Square Couch, complete with square leg detail and uphosltered with dark leather, or equally approved. (Photo 40)	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 2				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
82	'Balboa' style two (2) seater coach 2300mm long with turnstyle wood fram feet and 'Milano/Savannah' leather upholstery, or equal and approved. (Photo 11)	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 2				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection				R	
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery					

83 Refrigerator size 850 x 600 x 600mm deep with 150 litre capacity, with and including glass doors in aluminium frames, automatic defrost, right hand door hinge, height adjustable front feet, eight (8) adjustable and removable racks, infinitely adjustable variable temperature control, fridge light, etc. for 80W electrical capacity.

No

1

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 1
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

MS Milan Public Seating System 5 Seater with end arms and three legs

84 MILAN steel seating range heavy duty for high volume public traffic areas. Chair with one piece seat shell in 2mm thick perforated stainless steel grade 430 brushed finish, supported by a full framework in 6mm thick laser cut mild steel, complete with round cross bars in stainless steel. Chairs mounted on a steel tubular beam with 3mm wall thickness. Leg pieces on extreme ends of unit in 10mm laser cut mild steel with rubber adjustable ferrules to be free standing or fixed to floor. Unit complete with two end arms in grade 304 stainless steel at extreme ends of unit. All sub-frame mild steel components E-coated and epoxy powder coated colour silver grey.

No

2

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 2
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

COUNTER AND VANITY TOPS

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R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

<u>32mm Thick Formica worktop fixed in position with and including all fixing brackets, screws, jointing, pointing, silicone sealing around edges, etc.</u>								
85	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 1900mm long x 650mm wide overall.	No	22					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 6 B : 12 C : 0 D : 4							
	E : 0 F : 0 G : 0 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 0							
	X : 0							
86	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 2500mm long x 650mm wide overall.	No	2					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 2							
	E : 0 F : 0 G : 0 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 0							
	X : 0							
87	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 3500mm long x 650mm wide overall.	No	3					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 3 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 0							
	X : 0							
88	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 3000mm long x 650mm wide overall.	No	1					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 1							
	E : 0 F : 0 G : 0 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 0							
	X : 0							
Carried to Collection								
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery							R	

89	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 4500mm long x 650mm wide overall. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 4 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	4		
90	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 1900mm long x 650mm wide overall. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 3 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	3		
91	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 1900mm long x 600mm wide overall. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 3 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	3		
92	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 5000mm long x 650mm wide overall. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 5 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 1 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	6		
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery					R

93	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 4000mm long x 300mm wide overall.	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 1 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
94	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 4000mm long x 450mm wide overall.	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 1 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
95	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact bullnose edges units size 1100mm long x 300mm wide overall.	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 1				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
96	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact bullnose edges units size 750mm long x 900mm wide overall.	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 1				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery					

97	PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact bullnose edges units size 600mm long x 900mm wide overall.	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 2 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0				
	<u>30mm Thick Quartz countertop fixed in position with and including all fixing brackets, screws, jointing, pointing, silicone sealing around edges, etc.</u>				
98	Counter top, 600mm wide provided in single lengths fixed in positions as indicated on the drawings,	m	32		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 32 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0				
99	L-Shaped Counter top, 600mm wide provided in single lengths fixed in positions as indicated on the drawings,	m	15		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 15 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery				R	

	<u>32mm Thick "Rustenberg Granite chamfered on all exposed edges and polished on all exposed surfaces and edges, fixed in position with and including all fixing brackets, screws, jointing, pointing, silicone sealing around edges, etc.</u>		
100	Vanity top, 600mm wide provided in single lengths to form required shape with and including cut outs to sizes to fit wash hand basin and in positions as indicated on the drawings, <div style="display: flex; justify-content: space-between; margin-top: 10px;"> 1 : 02 : 04 : 07 : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> A : 0B : 0C : 0D : 12 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> E : 0F : 0G : 0H : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> I : 0J : 0K : 0L : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> M : 0N : 0O : 0W : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> X : 0 </div>	m	12
101	Counter top, 600mm wide provided in single lengths to form required shape with and including cut outs to sizes to fit wash hand basin and in positions as indicated on the drawings, <div style="display: flex; justify-content: space-between; margin-top: 10px;"> 1 : 02 : 04 : 07 : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> A : 0B : 0C : 0D : 32 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> E : 0F : 0G : 0H : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> I : 0J : 0K : 0L : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> M : 0N : 0O : 0W : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> X : 0 </div>	m	32
102	Vanity side trim, 250mm high provided in single lengths fixed in positions as indicated on the drawings, <div style="display: flex; justify-content: space-between; margin-top: 10px;"> 1 : 02 : 04 : 07 : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> A : 0B : 0C : 0D : 12 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> E : 0F : 0G : 0H : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> I : 0J : 0K : 0L : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> M : 0N : 0O : 0W : 0 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> X : 0 </div>	m	12

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

103	200mm High Splash back fixed to brick wall	m	44		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 44				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
104	60mm Diameter Stainless steel tubing support, 900mm long	No	18		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 18				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
105	Mild steel brackets 548 x 225mm high overall, comprising of horizontal member 50 x 50 x 3mm angle iron 548mm long, two vertical members 50 x 50 x 3mm angle iron 225mm long and 100mm long respectively and with diagonal member formed of 50 x 3mm steel flat plate 547mm long, with and including all mitred edges, welding, etc. and vertical member twice holed for and including 8mm diameter expansion anchor bolts bolted to brick wall in position	No	6		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 6				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
106	Cut through 32mm thick granite counter top to form opening not exceeding 300mm diameter or width.	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 3				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection				R	
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery					

Section No. 2			
BUILDING WORKS			
Bill No. 6			
Capentry and Joinery			
<u>COLLECTION</u>			
	Page No	Amount	
Total Brought Forward from Page No.	113		
	114		
	115		
	116		
	117		
	118		
	119		
	120		
	121		
	122		
	123		
	124		
	125		
	126		
	127		
	128		
	129		
	130		
	131		
Carried Forward		R	
Section No. 2			
BUILDING WORKS			
Bill No. 6			
Capentry and Joinery			

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u> <u>BUILDING WORK</u> <u>BILL NO.7</u> <u>CEILING , ETC.</u> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions:</u> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <u>CEILING CONSTRUCTION, CORNICES, ETC.</u> <u>Insulation</u>			
1	100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling. <div style="display: flex; justify-content: space-between;"> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>A : 1425</div> <div>B : 2304</div> <div>C : 620</div> <div>D : 459</div> </div> <div style="display: flex; justify-content: space-between;"> <div>E : 0</div> <div>F : 6003</div> <div>G : 63</div> <div>H : 194</div> </div> <div style="display: flex; justify-content: space-between;"> <div>I : 0</div> <div>J : 0</div> <div>K : 324</div> <div>L : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>M : 0</div> <div>N : 1461</div> <div>O : 0</div> <div>W : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>X : 0</div> <div></div> <div></div> <div></div> </div>	m2	12,853	
	Carried to Collection			R
	Section No. 2 BUILDING WORKS Bill No. 7 Ceilings, Partitions and Access Flooring			

	<u>Sawn softwood</u>				
2	38 x 114mm Ceiling joists (Provisional)	m	761		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 54 B : 77 C : 25 D : 17				
	E : 0 F : 416 G : 14 H : 42				
	I : 0 J : 0 K : 70 L : 0				
	M : 0 N : 46 O : 0 W : 0				
	X : 0				
	<u>"Rhino" gypsum plasterboard cornices</u>				
3	75mm Coved cornices	m	1,776		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 1454 G : 0 H : 84				
	I : 0 J : 0 K : 146 L : 0				
	M : 0 N : 92 O : 0 W : 0				
	X : 0				
	<u>SUSPENDED GRID CEILINGS</u>				
	<u>Gyproc RhinoCeil Prestige S flush plastered ceiling</u>				
	<u>9,5mm thick Taper-edge Rhinoboard fixed print side</u>				
	<u>up and screwed to Donn T37K screw up ceiling grid</u>				
	<u>with drywall screws spaced at 150mm centres,</u>				
	<u>including galvanised main tees at 1200mm centres</u>				
	<u>and cross tees at 500mm centres, all suspended</u>				
	<u>with 25 x 25mm galvanised angles at not exceeding</u>				
	<u>1200mm centres, all fixed to trusses at centres .</u>				
	<u>Joints to be covered with Rhinotape fixed over</u>				
	<u>joints (double over butt joints) and then plastered</u>				
	<u>with 6mm thick Rhinolite gypsum skim plaster</u>				
	<u>applied as per manufacturers instructions.</u>				
4	Ceilings suspended not exceeding 1m below timber purlins at 900mm centres (trusses not exceeding at 1m centres)	m2	7,706		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 180 B : 660 C : 225 D : 57				
	E : 0 F : 6003 G : 63 H : 194				
	I : 0 J : 0 K : 324 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
	Carried to Collection				
	Section No. 2				
	BUILDING WORKS				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				
				R	

5	Raking/Sloping ceiling suspended 1m-2m below timber soffit	m2	1,403		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 375 B : 760 C : 268 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
6	Raking cutting	m	218		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 42 B : 129 C : 47 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
	<u>600 x 1200 x 12.5mm Thick Gyprex fissured vinyl clad ceiling tiles laid on and including down T-section inlay exposed Tee suspension ceiling system including galvanised T38 main tees, T25 cross tees, hold-down clips, wedges, etc, all suspended with galvanised hangers at centres not exceeding 1200mm</u>				
7	Horizontal ceilings suspended 1m-2m below timber soffits	m2	2,773		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 366 B : 1542 C : 453 D : 412				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
8	Horizontal ceilings suspended 1m-2m below steel soffits	m2	1,461		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 1461 O : 0 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 7
Ceilings, Partitions and Access Flooring

9	Extra over ceilings for opening for 150mm diameter downlighter (Provisional)	No	1,091		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 24 B : 48 C : 18 D : 18 E : 0 F : 160 G : 8 H : 621 I : 0 J : 0 K : 18 L : 0 M : 0 N : 176 O : 0 W : 0 X : 0				
10	Extra over ceilings for opening for 1200 x 600mm light fitting (Provisional)	No	2,076		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 72 B : 144 C : 55 D : 55 E : 0 F : 1434 G : 4 H : 178 I : 0 J : 0 K : 12 L : 0 M : 0 N : 122 O : 0 W : 0 X : 0				
	<u>"Donn" cornices to suspended ceilings</u>				
11	"SM25" pre-painted cornices, nailed to walls	m	4,580		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 612 B : 1224 C : 412 D : 612 E : 0 F : 1434 G : 23 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 263 O : 0 W : 0 X : 0				
	<u>ALUMINIUM LOCKABLE TRAPDOORS (PROVISIONAL)</u>				
	<u>Summit Or Other Approved Lockable White Powder Coated Aluminium Trap Door Complete And Installed As Per Manufacturer's Instructions And Specifications</u>				
12	Trap door size 600 x 600mm.	No	22		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 3 B : 3 C : 1 D : 1 E : 0 F : 8 G : 1 H : 1 I : 0 J : 0 K : 2 L : 0 M : 0 N : 2 O : 0 W : 0 X : 0				
Carried to Collection				R	
Section No. 2 BUILDING WORKS Bill No. 7 Ceilings, Partitions and Access Flooring					

**ACCESS FLOORING(CPAP Work Group No. 138
Unless Otherwise Stated**

**Lafarge Gypsum Or similar approved Snap-on
Stringer access floor system with 600 x 600mm
Type 2 steel clad cementitious core panels with
factory bonded conductive and anti-static vinyl
finish, supported by and including all necessary
understructure components as per the
manufacturer's specification for a finished floor
height of not exceeding 595mm high above concrete
sub-floor (elsewhere measured) all in accordance
with SANS 1549:1992. Colour to Architects approval.
System to include decorative border integral trim
finish, access grommets, air diffusers, perforated
panels, electric power boxes, additional bracing,
1mm galvanised mild steel fire barrier and all holes
and sealing or similar approved**

13	Access flooring system complete	m2	5
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 5		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 7
Ceilings, Partitions and Access Flooring

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.8</u></p> <p><u>IRONMONGERY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs</p> <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p>			
	Carried to Collection		R	
	Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery			

CATCHES,CABIN HOOKS, ETC

1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	88		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 88 W : 0				
	X : 0				
2	Ironware Adjustable Roller Catch (PRODUCT CODE: IW5054SS)	No	12		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 12 W : 0				
	X : 0				
3	150mm Ironware Flush Lever Bolt (PRODUCT CODE: IW4123SS)	No	128		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 128 W : 0				
	X : 0				
4	300mm Ironware Flush Lever Bolt (PRODUCT CODE: IW4125SS)	No	28		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 28 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

LOCKS

5	Calini Lever On Rose SS IW:1045	Pairs	110.0		
	1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0				
	A : 0.0 B : 0.0 C : 0.0 D : 0.0				
	E : 0.0 F : 0.0 G : 0.0 H : 0.0				
	I : 0.0 J : 0.0 K : 0.0 L : 0.0				
	M : 0.0 N : 0.0 O : 110.0 W : 0.0				
	X : 0.0				
6	Stainless Steel Calini Narrow Style Cylinder Escutcheon (IW1903CYLSS)	Pairs	20.0		
	1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0				
	A : 0.0 B : 0.0 C : 0.0 D : 0.0				
	E : 0.0 F : 0.0 G : 0.0 H : 0.0				
	I : 0.0 J : 0.0 K : 0.0 L : 0.0				
	M : 0.0 N : 0.0 O : 20.0 W : 0.0				
	X : 0.0				
7	Stainless Steel Ironware Cylinder Escutcheon (PRODUCT CODE: IW1906CYLSS)	No	48		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 48 W : 0				
	X : 0				
8	60mm CTC Stainless Steel calini square cylinder backplate size 170 x 170mm type IWSBP4CYLSS	Pairs	6.0		
	1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0				
	A : 0.0 B : 0.0 C : 0.0 D : 0.0				
	E : 0.0 F : 0.0 G : 0.0 H : 0.0				
	I : 0.0 J : 0.0 K : 0.0 L : 0.0				
	M : 0.0 N : 0.0 O : 6.0 W : 0.0				
	X : 0.0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

9	43mm Ironware Single Cylinder Master Keyed (PRODUCT CODE: IWI2081NPMK)	No	38	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 38 W : 0 X : 0			
10	60mm Ironware Double Cylinder Master Keyed (PRODUCT CODE: IWI2050NPMK)	No	116	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 116 W : 0 X : 0			
11	60mm Ironware Double Cylinder Master Keyed (PRODUCT CODE: IWI2050NPMK)	No	22	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 22 W : 0 X : 0			
12	66mm Ironware Double Cylinder Master Keyed (PRODUCT CODE: IWI2051NPMK)	No	12	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 12 W : 0 X : 0			
Carried to Collection				
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery				R

13	70mm Ironware Double Cylinder Master Keyed PRODUCT CODE: IW2052NPMK)	No	48		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 48 W : 0				
	X : 0				
14	35mm Ironware Cylinder Dead Lock (PRODUCT CODE: IW2013SS)	No	18		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 18 W : 0				
	X : 0				
15	35mm Ironware Cylinder Sash Lock (PRODUCT CODE:IW2001SS).	No	54		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 54 W : 0				
	X : 0				
16	Ironware Commercial Cylinder Dead Lock (PRODUCT CODE: IW2219SS)	No	78		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 78 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

17	Ironware Commercial Cylinder Sash Lock (PRODUCT CODE: IW2207SS)	No	177	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 177 W : 0			
	X : 0			
18	35mm Ironware Dead Lock Cylinder with adjustable roller catch (PRODUCT CODE: IW2024SS)	No	6	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 6 W : 0			
	X : 0			
19	50mm Ironware Round WC Indicator Set (PRODUCT CODE: IW1921)	Sets	36.0	
	1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0			
	A : 0.0 B : 0.0 C : 0.0 D : 0.0			
	E : 0.0 F : 0.0 G : 0.0 H : 0.0			
	I : 0.0 J : 0.0 K : 0.0 L : 0.0			
	M : 0.0 N : 0.0 O : 36.0 W : 0.0			
	X : 0.0			
20	Ironware WC Indicator Set CODE: IW1926	No	18	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 18 W : 0			
	X : 0			
Carried to Collection				
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery				R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

21	50mm Ironware Round WC Indicator Set (PRODUCT CODE: IW1921).	Sets	38.0		
	1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0				
	A : 0.0 B : 0.0 C : 0.0 D : 0.0				
	E : 0.0 F : 0.0 G : 0.0 H : 0.0				
	I : 0.0 J : 0.0 K : 0.0 L : 0.0				
	M : 0.0 N : 0.0 O : 38.0 W : 0.0				
	X : 0.0				
22	Ironware WC Dead Lock with 8mm Follower (PRODUCT CODE: IW2031)	No	66		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 66 W : 0				
	X : 0				
	<u>"Solid"</u>				
23	"Code 630" padlock	No	28		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 28 W : 0				
	X : 0				
24	"Code 460/313" Blesbok four lever lockset	No	24		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 24 W : 0				
	X : 0				
Carried to Collection				R	
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					

TENDER NO: EDDP 1824/24

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

DOOR CLOSERS AND FLOOR SPRINGS

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

TENDER NO: EDDP 1824/24

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

37	QS Universal Soffit Bracket (PRODUCT CODE: QS7708SS)	No	4	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 4 W : 0 X : 0			
38	Dorma EN3/4 Slide Channel Door Closer (PRODUCT CODE: TS90EN3/4)	No	9	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 9 W : 0 X : 0			
	<u>Push Plates And Kicking Plates</u>			
39	TS73-SS-FP or other approved 60 X 225 X 1,6mm thick grade 304 stainless steel fixing plate with pre drilled fixing holes to suit door closer and plate to be installed on opposite side of door using dormakaba M5 or other approved male/female fixing screws.	No	54	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 54 W : 0 X : 0			
40	Ironware Kick Plate size 1200 x 200 x 800mm	No	28	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 28 W : 0 X : 0			
Carried to Collection				R
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery				

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

41	Ironware Kick Plate Size 1200 x 300 x 800mm. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 35 W : 0 X : 0	No	35
42	Blank Push Plate Size 1200 x 150 x 300mm 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 44 W : 0 X : 0	No	44
43	Calini Square Cylinder Back Plate size 170 x 170mm (PRODUCT CODE: IWSBP4CYLSS) 1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0 A : 0.0 B : 0.0 C : 0.0 D : 0.0 E : 0.0 F : 0.0 G : 0.0 H : 0.0 I : 0.0 J : 0.0 K : 0.0 L : 0.0 M : 0.0 N : 0.0 O : 96.0 W : 0.0 X : 0.0	Pairs	96.0
<u>SUNDRIES</u>			
44	Ironware Door Stop (PRODUCT CODE: IW5002SC) 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 65 W : 0 X : 0	No	65
45	Ironware Hook & Buffer (PRODUCT CODE: IW5034) 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 33 W : 0 X : 0	No	33

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

R

46	<p>Ironware Dust Excluding Socket (PRODUCT CODE: IW4060SS)</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 22 W : 0</p> <p>X : 0</p> <p><u>STEEL CUPBOARDS</u></p> <p><u>Aproved steel lockers with standard baked enamel finish</u></p>	No	22		
47	<p>G10 Double door steel cupboard 914 x 457 x 1828mm high with five shelves bolted to brickwork</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 22 W : 0</p> <p>X : 0</p> <p><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u></p> <p><u>"Vitrex" or other equal and approved vitreous enamelled writing boards, etc. to SABS CSK - 36 - 1980</u></p>	No	22		
48	<p>Pinning boards 3000 x 1200mm high fixed to brickwork</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 24 B : 24 C : 8 D : 8</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>	No	64		
49	<p>Pinning boards 4000 x 1200mm high fixed to brickwork</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 6</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>	No	6		
Carried to Collection				R	
<p>Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery</p>					

50	<p>Vitrex system enamelled green folding type writing board, with wall mounted centre board 4800 x 1220mm high with chalk rail and two swing leaves each 1200 x 1220mm high plugged</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 6 B : 12 C : 4 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p> <p><u>FLIPCHART</u></p>	No	22		
51	<p>Flipchart size 900 x 600mm with 40 sheets capacity on and including 3 legged stand, with and including integrated pen tray, paper clamp, self-adjusting stability hinge, adjustable legs, locking clips, non slip end caps, etc.</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 10 W : 0 X : 0</p> <p><u>WHITEBOARD</u></p>	No	10		
52	<p>Non-Magnetic drywipe whiteboard, size 1200 x 1000mm including easy rail system for two (2) boards.</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 6 B : 12 C : 4 D : 6 E : 0 F : 8 G : 1 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 2 O : 0 W : 0 X : 0</p>	No	39		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

TV AND TV BRACKET

53	54cm Flat CRT TV, size 604 x 473 x 340mm deep (19,5kg) with and including TV bracket (colour to match TV set), all complete with and including sound output (RMS) of -10W to + 10W, line stereo, turbo sound effect system, headphone capabilities, 1x set composite (AV) on side and back, 1x set component (Y/Pb/Pr), clock and on/off timer, TM85 remote control, angle control to bracket, secure straps.	No	15
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 8 G : 0 H : 1		
	I : 0 J : 0 K : 2 L : 0		
	M : 0 N : 4 O : 0 W : 0		
	X : 0		

PELMETS AND CURTAIN TRACKS

Curtain Tracks and curtains

54	Double curtain tracks for face fixing with 103,5mm projection, including 14 rollers per metre, brackets, stopped ends, pelmets etc, plugged including polycottons curtains in standard height	m	216
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 150 G : 0 H : 21		
	I : 0 J : 0 K : 45 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

CHANGE ROOMS CURTAINS

55	Vinyl change rooms curtains 4000mm long with plastic clip-on rings on 150mm centres with 2000mm rod (Total width of curtain to be twice the rod length measured)	m	14
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 6 B : 6 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 2 O : 0 W : 0		
	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**DECRAMAT MATTING SYSTEMS (DUST MATS)
OR EQUALLY APPROVED**

BLINDS

Manually operated 50mm standard privacy and light control aluminium venetian blinds including De Luxe 50x50mm headrail with brass cord lock and galvanised tilt mechanism fixed to one side of headrail, including heavy duty universal box brackets complete with matching authentic wood bottom rail, valance, bottom buttons and tassels. Size of blinds to be measured to fit within the window reveal and fixed to underside of lintel. Installed strictly to manufacturer's specification and colour and sample to be pre-approved by Architect

56	Window size, 900 x 2125mm high	No	14
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 14		
	X : 0		
57	Window size, 1500 x 1800mm high	No	48
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 48		
	X : 0		
58	Window size, 900 x 900mm high	No	194
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 194		
	X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

59	Window size, 900 x 900mm high	No	57
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 57		
	X : 0		
60	Window size, 900 x 1800mm high	No	5
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 5		
	X : 0		
61	Window size, 900 x 1800mm high	No	131
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 131		
	X : 0		
62	Window size, 900 x 600mm high	No	139
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 139		
	X : 0		
63	Window size, 1200 x 900mm high	No	162
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 162		
	X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

64	Window size, 600 x 600mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 179 X : 0	No	179
65	Window size, 900 x 1500mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 1 X : 0	No	1
66	Window size, 1500 x 1800mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 5 X : 0	No	5
67	Window size, 1200 x 1800mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 5 X : 0	No	5
68	Window size, 1200 x 2400mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 52 X : 0	No	52
Carried to Collection			R
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery			

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

69	Window size, 1200 x 1200mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 74 X : 0	No	74
70	Window size, 1800 x 900mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 2 X : 0	No	2
71	Window size, 1500 x 3600mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 6 X : 0	No	6
72	Window size, 600 x 3600mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 6 X : 0	No	6
73	Window size, 600 x 1800mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 4 X : 0	No	4
Carried to Collection			
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery			

LETTERS, NAMEPLATES, ETC

74	Dormakaba DSS-130 M or other approved 150 x 150mm STORE sign.	No	35
	1 : 0 2 : 0 4 : 0 7 : 0 A : 6 B : 12 C : 4 D : 0 E : 0 F : 12 G : 1 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0		
75	Dormakaba DSS-132 MF or other approved 150 x 150mm MALE/FEMALE sign.	No	121
	1 : 0 2 : 0 4 : 0 7 : 0 A : 6 B : 12 C : 0 D : 2 E : 0 F : 100 G : 1 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0		
76	Dormakaba DSS-133 P or other approved 150 x 150mm DISABLED PERSONS sign.	No	18
	1 : 0 2 : 0 4 : 0 7 : 0 A : 6 B : 12 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0		
77	Dormakaba DSS-131 F or other approved 150 x 150mm CHANGE ROOM sign.	No	18
	1 : 0 2 : 0 4 : 0 7 : 0 A : 6 B : 12 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

78	Dormakaba DSS-145 FHR or other approved 150 x 150mm FIRE HOSE REEL sign.	No	13
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 3</div> <div>B : 6</div> <div>C : 2</div> <div>D : 2</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div> <div> <div>X : 0</div> </div>		
79	Dormakaba DSS-146 FE or other approved 150 x 150mm FIRE EXTINGUISHER sign.	No	26
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 6</div> <div>B : 12</div> <div>C : 4</div> <div>D : 4</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div> <div> <div>X : 0</div> </div>		
80	<i>Dormakaba</i> DSS-147 FH or other approved 150 x 150mm ARROW sign.	No	41
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 9</div> <div>B : 18</div> <div>C : 6</div> <div>D : 8</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div> <div> <div>X : 0</div> </div>		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

GRAB RAILS

- 81 Grab rail (Suppliers code: DL2) or other approved 32mm cranked stainless steel side grab rail size 300mm x 300mm x 300mm fixed to wall.

No 59

1 : 0	2 : 0	4 : 0	7 : 0
A : 3	B : 12	C : 0	D : 1
E : 0	F : 40	G : 1	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 2	O : 0	W : 0
X : 0			

- 82 Grab rail (Suppliers code: SR2) or other approved 32mm stainless steel rear grab rail size 670mm long x 246mm wide, fixed to wall.

No 59

1 : 0	2 : 0	4 : 0	7 : 0
A : 3	B : 12	C : 0	D : 1
E : 0	F : 40	G : 1	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 2	O : 0	W : 0
X : 0			

BATHROOM FITTINGS

- 83 Franke (Suppliers code: 6948000) or other approved heavy duty wall mounted satin finished stainless steel soap dispenser, size 128 x 320 x 127mm, material thickness 14 gauge 2mm, casing is held in place by a stainless steel rod fixed to the mounting plate and a security lock, suitable for liquid soaps and lotions with and including one liter soap tank, push button on front and stainless steel screws and dowels.

No 41

1 : 0	2 : 0	4 : 0	7 : 0
A : 6	B : 24	C : 0	D : 3
E : 0	F : 0	G : 1	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 3	O : 0	W : 0
X : 4			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

84	<p>Franke "RODAN" (Suppliers code: RODX310) or other approved satin finish stainless steel wall mounted touch free electronic warm air hand dryer for wall mounting, material thickness 1,2mm, infrared sensor activity for non-touch operation and sensor range adjustable from 100 to 300mm (Cable and plug not included).</p>	No	46
	<p>1 : 0 2 : 0 4 : 0 7 : 0 A : 6 B : 24 C : 0 D : 3 E : 0 F : 0 G : 1 H : 1 I : 0 J : 0 K : 4 L : 0 M : 0 N : 3 O : 0 W : 0 X : 4</p>		
85	<p>Franke or other approved recessed type toilet roll holder, size 118mm diameter x110mm, manufactured from grade 304 (18/10) stainless steel, 2mm gauge with 20mm flange and two M10 treaded rods for bolting the unit through the wall.</p>	No	48
	<p>1 : 0 2 : 0 4 : 0 7 : 0 A : 9 B : 24 C : 0 D : 3 E : 0 F : 0 G : 1 H : 1 I : 0 J : 0 K : 2 L : 0 M : 0 N : 8 O : 0 W : 0 X : 0</p>		
86	<p>Franke Chonos STRX605 1.2mm thick grade 304 18/10 stainless steel waste disposal bins (product code: 2120048), size 520 x 300 x270mm deep with waste bin capacity of 34 litres, plugged and screwed to the wall with stainless steel screws. installed stricly to manufactures specifcations. one per ablution/toilet block or medical bin</p>	No	48
	<p>1 : 0 2 : 0 4 : 0 7 : 0 A : 9 B : 24 C : 0 D : 3 E : 0 F : 0 G : 1 H : 1 I : 0 J : 0 K : 2 L : 0 M : 0 N : 8 O : 0 W : 0 X : 0</p>		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

87 Franke (Suppliers code: TD350) or other approved wall mounting heavy duty stainless steel paper towel dispenser with surface satin finish, material thickness 14 gauge (2mm), complete closed casing held in place by a stainless steel rod fixed to the mounting plate and a security lock, loading capacity 400 to 600 piece paper depending on convolution, includes stainless steel screws and dowels.

No

46

1 : 0	2 : 0	4 : 0	7 : 0
A : 9	B : 24	C : 0	D : 3
E : 0	F : 0	G : 1	H : 1
I : 0	J : 0	K : 2	L : 0
M : 0	N : 6	O : 0	W : 0
X : 0			

88 Staff changing bench complete comprising of 32 x 69mm hardwood slats with 5mm chamfered edges fixed with coach bolts to and including 38 x 38 x 5mm galvanized angle iron section seat support framework and bracing, steel framework bolted to wall with and included three 100mm long expanding bolts (As per Architects drawings).

m

12

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 12			

"Union"

89 150 x 150mm Stainless steel plate engraved with electrical symbol (St/Steel)

No

17

1 : 0	2 : 0	4 : 0	7 : 0
A : 3	B : 3	C : 1	D : 1
E : 0	F : 8	G : 1	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

90	150 x 150mm Stainless steel plate engraved with "no smoking" symbol (St/Steel)	No	16		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 2 D : 4				
	E : 0 F : 8 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 2 O : 0 W : 0				
	X : 0				
91	150 x 150mm Stainless steel plate engraved with "no open fires" symbol (St/Steel)	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 2 O : 0 W : 0				
	X : 0				
92	150 x 150mm Stainless steel plate engraved with "no unauthorised person" symbol (St/Steel)	No	4		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 4 O : 0 W : 0				
	X : 0				
93	150 x 150mm Stainless steel plate engraved with "no littering" symbol (St/Steel)	No	82		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 82 O : 0 W : 0				
	X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery				R	

94	150 x 150mm Stainless steel plate engraved with "running man RH" sign (St/Steel)	No	24		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 6 B : 12 C : 4 D : 2				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
95	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "KITCHEN"	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
96	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STAFF ROOM"	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
97	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STATIONERY STORE"	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					R

98	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "RECEPTION"	No	6		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 6 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
99	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "SERVER ROOM"	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
100	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PRINCIPAL OFFICE"	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
101	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PRINT ROOM"	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					R

102	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "VICE PRINCIPAL"	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
103	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "COMPUTER ROOM"	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
104	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "WAITING AREA"	No	6		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 6 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
105	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STRONG ROOM"	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					

106	<p>300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "TOY LIBRARY"</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 1 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p>	No	1		
107	<p>300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PASSAGE"</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 4 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p>	No	4		
<u>800mm LETTERING ON DOORS</u>					
108	<p>8mm Thick x 800mm high bold " ARIAL NARROW" numbers cut out of 8mm thick plain 'Valcromat' MDF board. All salient edges to be routered round and numbers finished with two coats high quality exterior polyurethane varnish after holes have been drilled for screw fixing .</p> <p>Numbers to be secured to timber doors by means of minimum 3 no. stainless steel screws.</p> <p>ROOM NAME : Classrooms INSCRIPTION :All entrance doors to classrooms to be numbered sequentially .</p> <p>POSITION: Letters to be centred horizontally on door with top sign at 1500mm AFFL.</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 12 B : 24 C : 8 D : 16 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p>	No	60		
<u>200mm LETTERING ON DOOR OR WALL</u>					
Carried to Collection					
<p>Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery</p>				R	

	<p><u>3mm Thick Aluminium plate 220mm high, with engraved bold "SANS SERIF" lettering of 200mm height .Space between end of lettering and ends to plate to be 20mm .Engraving to be filled in, coloured black .All facing edges to be bevelled and polished.Plate to be plugged and fixed to wall at all four corners with counter sunk chrome plate semi dome type screws on a double sided tape backing top,bottom and ends .Lettering to be cased as indicated in the "Inscription" colomn below.</u></p> <p><u>ROOM NAME: Administration,Nutrition centre ,Science laboratory,Multi purpose classroom,Computer room,Library,INSCRIPTION: Room name</u></p>				
109	<p>3mm Thick aluminium plate engraved - ADMINISTRATION BLOCK"</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 2</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>	No	2		
110	<p>3mm Thick aluminium plate engraved "DINING ROOM AND KITCHEN"</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 2 O : 0 W : 0</p> <p>X : 0</p>	No	2		
111	<p>3mm Thick aluminium plate engraved "ECD BLOCK"</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 9 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>	No	9		
Carried to Collection					
<p>Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery</p>					
					R

112	3mm Thick aluminium plate engraved "FOUNDATION PHASE" 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 6 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	6		
113	3mm Thick aluminium plate engraved "INTERMEDIATE PHASE" 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 6 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	6		
114	3mm Thick aluminium plate engraved "SENIOR PHASE BLOCK" 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 6 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	6		
115	3mm Thick aluminium plate engraved "ASD BLOCK" 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 2 W : 0 X : 0	No	2		
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					R

116	3mm Thick aluminium plate engraved "WORKSHOP BLOCK"	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 2 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
117	3mm Thick aluminium plate engraved "MAINTENANCE WORKSHOP"	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 2 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
118	3mm Thick aluminium plate engraved "BOYS HOSTEL"	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1				
119	3mm Thick aluminium plate engraved "GIRLS HOSTEL"	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1				
120	3mm Thick aluminium plate engraved "HOSTEL MANAGER"	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 2				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					

121	3mm Thick aluminium plate engraved "HOUSE PARENT" 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 2 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	2		
122	3mm Thick aluminium plate engraved " SECURITY" 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 2 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0	No	2		
123	Sign size 1200x 400mm high overall, consisting of lettering "ASIPHUMELELE SPECIAL SCHOOL" 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 1	No	1		

EXTERNAL SIGNAGE

Powder coated 3-D Graphic Lettering fixed to wall with 10mm long pins welded at the back of the letters during manufacturing of signage , installed complete in position and in location as per Architects drawings

SIREN

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

<u>"SIREN" OR EQUAL APPROVED</u>					
124	Code " integrated siren for PHB Panic Hardware is a device that emits a strong acoustic signal (90dB) every time the panic bar is pressed. It is battery operated and requires no external power . The device can be retrofitted on pre installed PHB(only) panic bar. A single profile cylinder (included) is used to program the function and set the device status (alarm off, alarm on, courtesy). finished in silver	No	7		
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 3</div> <div>B : 3</div> <div>C : 1</div> <div>D : 0</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div> <div> <div>X : 0</div> </div>				
<u>KEY CABINET</u>					
<u>Saunderson Security (0800 204 563) or similar approved</u>					
125	Wall mounted standard Fortis key cabinet with 100 hooks size 540 x 420 x 55mm deep	No	2		
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>D : 2</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div> <div> <div>X : 0</div> </div>				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO .9</u>			
	<u>STRUCTURAL STEEL</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.</p> <p>All structural steelworks must be done according to SANS1200 H.</p>			
	Carried to Collection		R	
	Section No. 2 BUILDING WORKS Bill No. 9 Structural Steel			

Accuracy to be Class II.

All structural steel must be grade 300W according to SANS 1431, except cold rolled hollow sections which can be of commercial grade.

Weld electrode classification - Grade E70XX

Contractor must submit workshop details to the Engineer for written approval before the fabrication of any structural steelworks.

The contractor is responsible for the stability of structure until completion

All steel work dimensions to be checked during preparation of workshop drawings and any discrepancies must be reported to the Engineer immediately.

All connections must welded all around with a 5mm fillet weld, except where shown otherwise.

All bolts to be Grade 8.8.

Surface treatment and corrosion protection of structural steel as per SANS specifications

GALVANISED STEEL TRUSSES ETC

1	Welded monopitch shaped roof truss 16755mm wide x 2667mm high overall, formed of RHS-sections, including holes	t	21.00
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PURLINS, GIRTS, BRACING, ETC

Purlins and girts bolted to steel

2	Lipped channel section purlins	t	2.00
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3	Lipped channel section cleats	t	1.20
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Welded bracing etc with flat section connection plates bolted to steel

4	Angle section bracing	t	0.80
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Carried to Collection

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Section No. 2
BUILDING WORKS
Bill No. 9
Structural Steel

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>Drawings</u></p> <p>Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>All dimensions are to be checked on site prior to manufacture</p> <p>Any discrepancies are to be reported to the Architect before manufacture</p> <p>All work to be done in strict accordance with the Engineers specifications</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 10</p> <p>Metalwork</p>			

Shop drawings are to be submitted to Architects for approval prior to manufacture

Contractor can adjust the unit lengths to suit his manufacturing and transport requirements but must submit to the Architect for approval

All welding to be done in strict accordance with SABS codes and done by a qualified and registered welder and to the satisfaction of the Engineer

All welding will be subject to random testing and x-rays to the discretion and satisfaction of the Engineer

The Contractor will be required to provide a mock-up sample of a handrail and/or ballustrade

The Contractor shall study the drawings as attached to this document and will submit a all inclusive price per unit of measure for the items as described in the document. No claims with regards to an oversight or omission by the contractor will be entertained.

Where applicable to steel sections indicated by suffixes, the meaning will be in accordance with the following list:
SHS - Square Hollow Section
CHS - Circular Hollow Section
RHS - Rectangular Hollow Section

SUNDRY METALWORK

The following in identical steel support columns

1	Bolts, complete with nuts and two washers each	kg	199
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 45 B : 90 C : 30 D : 34		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

R

2	100 x 100 x 5mm Tubular section columns 3050mm high	No	78		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 18 B : 36 C : 24 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
3	75 x 6mm Flat section fixing plate 120mm, twice holed for bolt and welded to top end of tubular section column (Provisional)	No	78		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 18 B : 36 C : 24 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
4	100 x 6mm Flat section fixing plate 120mm, twice holed for bolt and welded to top end of tubular section column (Provisional)	No	78		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 18 B : 36 C : 24 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
5	200 x 200 x 5mm Thick Base plate, with four holes for bolts and welded to bottom end of tubular section column	No	78		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 18 B : 36 C : 24 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 10 Metalwork					R

[illegible]

Welded and bolted stainless steel balustrading to ramps

- 8 Raking welded balustrading 1050mm high. 50 x 75 x 3mm hollow section posts at 1200mm centres with 50 x 50 x 3mm hollow section top and bottom rails. 19 x 19mm square vertical uprights at 100mm centres. 150 x 150 x 6mm baseplate, 4 x holed and welded to soffit posts. M16 x 100mm expansion bolts.

m 489

1 : 0 2 : 0 4 : 0 7 : 0
A : 38 B : 78 C : 52 D : 0
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 321

Welded and bolted stainless steel balustrading to walkways

- 9 Horizontal welded balustrading 1000mm high. 70 x 70 x 2,5mm hollow section posts at 1600mm centres; 40 x 40 x 2,5mm hollow section top and bottom rails. 10mm diameter vertical uprights at 100mm centres as per elevation. 150 x 150 x 6mm baseplate; 4 s holes for bolts. M16 x 100mm expansion bolts

m 414

1 : 0 2 : 0 4 : 0 7 : 0
A : 63 B : 126 C : 84 D : 0
E : 0 F : 0 G : 0 H : 8
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 133

WELDED SCREENS, GATES, ETC

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

Gates to doors fixed to frame size 50 x 25 x 3mm rectangular tubing sections with mitre 45 degrees at corners with 16mm mild steel solid rods welded from top frame through the middle frame to the bottom frame to before welded secure against wall with 70mm galvanised steel bullet hinges;

10	Gate and frame type MS01 size 960 x 2125mm high	No	6		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 6				
	X : 0				

11	Gate and frame type MS02 size 1820 x 2125mm high	No	17		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 17				
	X : 0				

PRESSED STEEL DOOR FRAMES

1,6mm Thick Mild Steel pressed metal frame with double rebate complete with lugs and base ties with back of the frame filled with cement mortar as supplied by manufacturer suitable for half brick walls

12	Frame for Door Type DS24C size 964 x 2064mm high	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 2				
	X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

13	Frame for Door Type DS24A size 964 x 2064mm high	No	49		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 49				
	X : 0				
14	Frame for Door Type DS23B size 877 x 2064mm high	No	12		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 12				
	X : 0				
15	Frame for Door Type DS13H size 500 x 2125mm high	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 1				
	X : 0				
16	Frame for Door Type DS12H size 700 x 2125mm high	No	24		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 24				
	X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 10 Metalwork					R

	<u>1,6mm Thick Mild Steel pressed metal frame with double rebate complete with lugs and base ties with back of the frame filled with cement mortar as supplied by manufacturer suitable for one brick walls</u>							
17	Frame for Door Type DT55A size 1588 x 2166mm high	No	16					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 0 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 16							
	X : 0							
18	Frame for Door Type DS77B size 1677 x 2064mm high	No	9					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 0 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 9							
	X : 0							
19	Frame for Door Type DS77A size 1677 x 2064mm high	No	7					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 0 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 7							
	X : 0							
20	Frame for Door Type DS75A size 1423 x 2064mm high	No	2					
	1 : 0 2 : 0 4 : 0 7 : 0							
	A : 0 B : 0 C : 0 D : 0							
	E : 0 F : 0 G : 0 H : 0							
	I : 0 J : 0 K : 0 L : 0							
	M : 0 N : 0 O : 0 W : 2							
	X : 0							

21	Frame for Door Type DS74A size 978 x 2064mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 68 X : 0	No	68
22	Frame for Door Type DS73A size 877 x 2064mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 49 X : 0	No	49
23	Frame for Door Type DS73B size 877 x 2064mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 18 X : 0	No	18
24	Frame for Door Type DA52H size 964 x 2064mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 2 X : 0	No	2

**FIRE ESCAPE DOORS AND HOT DIP
GALVANISED PRESSED STEEL FRAMES**

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

	<u>2mm Thick Mild Steel pressed metal frame with double rebate complete with lugs and base ties with back of the frame filled with cement mortar as supplied by manufacturer suitable for one brick walls</u>		
25	<p>Frame for Door Type DF52G size 964 x 2032mm high</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 3</p> <p>X : 0</p> <p><u>WINDOWS</u></p> <p><u>"PWPSA" or similar approved extruded uPVC window system with 12mm solid square burglar bars to all sashes</u></p>	No	3
26	<p>Window type uP01, 900 x 2125mm high</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 14</p> <p>X : 0</p>	No	14
27	<p>Window type uP02, 1500 x 1800mm high</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 48</p> <p>X : 0</p>	No	48
28	<p>Window type uP03A, 900 x 900mm high</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 57</p> <p>X : 0</p>	No	57

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

29	Window type uP04, 900 x 1800mm high	No	5		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 5				
	X : 0				
30	Window type uP04A, 900 x 1800mm high	No	31		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 31				
	X : 0				
31	Window type uP05, 900 x 600mm high	No	39		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 39				
	X : 0				
32	Window type uP06, 1200 x 900mm high	No	62		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 62				
	X : 0				
33	Window type uP07, 600 x 600mm high	No	79		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 79				
	X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 10 Metalwork					R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

34	Window type uP10, 900 x 1500mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 1 X : 0	No	1
35	Window type uP11, 1500 x 1800mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 5 X : 0	No	5
36	Window type uP12, 1200 x 1800mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 5 X : 0	No	5
37	Window type uP13, 1200 x 2400mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 24 X : 0	No	24
38	Window type uP14, 1200 x 1200mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 28 X : 0	No	28
Carried to Collection			R
Section No. 2 BUILDING WORKS Bill No. 10 Metalwork			

39	Window type uP15, 1800 x 900mm high	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 2				
	X : 0				
40	Window type uP16, 1500 x 3600mm high	No	6		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 6				
	X : 0				
41	Window type uP17, 600 x 3600mm high	No	6		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 6				
	X : 0				
42	Window type uP18, 600 x 1800mm high	No	4		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 4				
	X : 0				
43	Window type uP19, 600 x 2400mm high	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 2				
	X : 0				
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 10 Metalwork					

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

44	Window type uP20, 1200 x 600mm high	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 3				
	X : 0				
45	Window type uP21, 600 x 2400mm high	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 3				
	X : 0				
46	Window type uP22, 1190 x 460mm high	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 2				
	X : 0				
47	Window type uP23, 1190 x 1150mm high	No	6		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 6				
	X : 0				
48	Window type uP24, 425 x 460mm high	No	16		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 16				
	X : 0				
Carried to Collection					R
Section No. 2					
BUILDING WORKS					
Bill No. 10					
Metalwork					

Standard (Type MV) steel transformer room double door. Fully louvred.

49	Double Door Type DT55A size 1524 x 2134mm high	No	4
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 4		
	X : 0		

STEEL ROLLER SHUTTERS ETC

Roller shutters fixed to brickwork or concrete

50	Steel serving hatch door to suit opening size 1200 x 1225mm high with Van Dyk Brown SC Colorcoat HPS 200 finish manually operated, including centre lift lock and rubber, handles, Roll-A-Guides, hinges, fixing bolts, tracks etc, fixed in position to brickwork or concrete with a minimum of 900mm above the finish floor level	No	1
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 1		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		
51	Roll Up Serranda 1½ hour fire rated galvanised steel push-up 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening 1680 x 1057mm high with overhead box 285mm high including canopy cover, standard bottom rail, windlock guides, galvanised steel ancillary components including 4,5mm thick end plates, guide rails, fusible link and release mechanism and canopy cover, fixed to brick jambs and concrete lintel.	No	3
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 3		
	X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

R

STEEL STRONGROOM DOORS, VENTILATORS, ETC

"Gunnebo SA" strongroom doors etc. suitable for 230mm walls fixed to brickwork or concrete

52	Mutual Austen Safes DS50/2/HD SABS Category 2 (Heavy Duty) left hand strongroom with 2 x 7-lever security keylock, overall size 850 x 1860mm high with and including powder coated finish	No	1
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 1		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

53	Double ended strongroom ventilator	No	1
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 1		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

NATURAL ANODISED ALUMINIUM FRAMES

Aluminium Frame

54	Frame for Door Type DW03A size 873 x 2125mm high	No	2
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 2		
	X : 0		

55	Frame for Door Type DP03A size 873 x 2125mm high	No	4
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 4		
	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

ALUMINIUM AND GLASS FACADE

STEEL COLUMNS AND BEAMS

Welded columns in single lengths with flat section base, to, bearer and connection plates bolted to concrete slab

56	150mm Diameter Circular columns	t	0.33		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 0.00 B : 0.00 C : 0.00 D : 0.00				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.33 O : 0.00 W : 0.00				
	X : 0.00				

Grade 8.8 Bolts to columns, struts, etc

57	16mm Diameter x 75mm long bolts	No	40		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 40 O : 0 W : 0				
	X : 0				

Grade 8.8 Bolts to columns, struts, etc

58	M16-HAD-P mechanical anchor bolts 100mm long	No	10		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 10 O : 0 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

Pin connectors to columns, struts, etc

59	Pin connector 30mm diameter x 220mm long	No	20		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 20 O : 0 W : 0				
	X : 0				

PAINTWORK

ON METAL

Prepare surfaces to weldseams, burned and rusty areas balst cleaned to ISO-Sa2.5 or power tool cleaned to SPSS-Pt3 and apply one coat Sigma Cover 256 and one coat SigmaDur paint on steel

60	On members of beams, columns, supports, struts, etc	m2	15		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 15 O : 0 W : 0				
	X : 0				

SUNDRIES

Workshop drawings

61	Allowance for the preparation of workshop drawings as required by the Engineer's specifications		Item		
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Test certificates

62	Allowance for the preparation and submission of test certificates as required by the Engineer's specifications		Item		
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NATURAL ANODISED ALUMINUM LOUVRE UNITS

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

Purpose made fixed louvre units bolted to aluminium frames

63	Louvre unit 250 x 24 x 3300mm High adjustable Aluminium Louvres with finished blades at a pitch of 60 degree, fixed to 150mm diameter powder coated steel columns at 3000mm c/c to structural engineer designs ,as per Architects drawings and details attached	No	13
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 13		

NATURAL ANODISED ALUMINUM LOUVRE UNITS

Purpose made fixed louvre units bolted to aluminium frames

64	Louvre unit size 734 x 900mm.	No	12
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 12 O : 0 W : 0 X : 0		

ALUMINIUM WINDOWS, DOORS, ETC

Doors, windows, etc to be manufactured by an approved firm of specialists, to be of the best quality and design truly squared and unless otherwise described, prepared to receive glazing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible, all angles and intersections to be welded by electric welding, argon or arc welding. A sample window is to be submitted to the Architect for approval before the work is put in hand.

The frames generally are to be suitable for brickwork, block work, or concrete reveals. They are to be fitted with fixing lugs of 2,8mm aluminium 13mm wide x 100mm long welded to framing, one near each corner and intermediately not more than 300mm apart to sides

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

R

top and bottom. Where concrete reveals, etc the frames are to be countersunk holed for and fitted with the necessary screws at the centres as for the lugs above.

Immediately after the windows, doors, etc, have been delivered on to site, they are to be thoroughly overhauled, and all necessary adjustment or repairs made before they are fixed in position. Where they come into contact with brickwork, block work, concrete, steel, etc, the framing is to be treated with bituminuos paint in an approved manner. The windows, doors, etc, are to be placed in their positions for building in and adjusted to open and close properly and are to be securely structured to prevent distortion whilst the brickwork and lintols, are being built.

On completion of all other work the windows, doors, are to be adjusted as necessary and rendered in a complete and satisfactory state of repair and in working order.

General. All rates for doors, windows, shopfronts etc , should include for all glazing as specified.

Glazing beads: All door, etc to be fitted with glazing beads, unless otherwise described, mitred at angles and screwed on.

Glass and Glazing: All functional glass must be delivered to site cut to size and ready for installation and must be classified to indicate grade and thickness. Labels must remain on each piece of glass until it is glazed, inspected and officially accepted in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibility.

AAAMSA guide

All windows, doors, etc shall comply with and meet the minimum recommended performance requirements as set out in the General Specification for Architectural Aluminium and Glass Products (Third Edition) as published by the Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA)

The following specifications are to be complied with:

Aluminium alloy extrusion: BS 1474
Aluminium alloy sheets: SANS 903
Anodising: SANS 999
Neoprene performed seals and gaskets: SATM C542
Powder coat finishing: SANS 1274

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

R

Glass

Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part N : Glazing). Safety glass shall comply with SABS 1263. The National Building Regulations shall be observed with regard to the specification of safety glass

Design indemnity

The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed

Drawings

Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc

Pricing.

All window prices should include aluminium louvres as shown

General

Workshop drawings to be approved by the architect before manufacture

Ironmongery

Prices for windows shall allow for two standard stainless steel side/top hung friction hinges and one bronze anodised aluminium handle per opening sash. Prices for doors shall allow for two pairs of standard flush bolts to double doors and one-and-a-half pairs of standard hinges per door leaf.

FRAME :

Extruded aluminium section to comply with AAAMSA specification.

Sub frame: Hardwood timber or steel according to manufacturers shop drawings, screwed and plugged to wall and at top & sides only at approximately 250mm c/c, with openings between wall and aluminium frame.

Sealed

with silicone sealer to match frame colour.

FINISH:

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

R

All External Aluminium Including Shopfront Framing & Louvers to be Powder Coated Interpon D 1000 Series ANP 37030 (Matt Stone Grey)

GLAZING:

Safety glass as specified in glazing beads as per manufacturers details subject to Architect's approval. Minimum glass thickness to comply with N.B.R. part N - glazing and S.A.B.S. 0137. Glazing to be installed in glazing beads in accordance with AAAMSA standards. Note: No liquid laminated glass to be used.

Exterior: 6.38mm Low-E Intruderprufe Laminated Safety Glass, Cool Grey

Interior: 6.38mm Laminated Safety Glass, Intruderprufe, Clear

Wind Loads: All External Windows to be Designed to Withstand Wind Loads up to 1 kN/m²

OTHER:

All hinges and flush bolts by manufacturer & to be approved by Architect.

Door closers, handles, locks and sliding gear as per ironmongery schedule.

GENERAL NOTES:

All windows are design and supply.

Tenderer to submit full detail shop drawings indicating sections, dimensions hardware and subframe details, as well as samples of the finishes.

Refer all discrepancies to Architect before any work proceeds.

All dimensions to be checked on site prior to ordering of any material.

All quantities to be checked by contractor prior to ordering.

Drawings to be read in conjunction with floor layout drawings and finishing schedules.

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

R

Purpose Made Pre-Glazed Powder Coated Matt Stone Grey Aluminium Windows All As Per Detail Drawings Issued With These Bills Of Quantities, Manufactured Per The Specified System Complying With The AAMSA, SAGA, NBR And SANS Codes Of Practice, Complete With Ironmongery, Glazing As Per Glazing Key On Issued Drawings, Neoprene Gaskets And Including Setting Up, Building In, Filling Back Of Frame With Cement Mortar, Etc. with Flexothane White Silicone Pointing To Frame

- 65 Window louvre unit Type TA 101 size 2400 x 400mm high overall, formed of two windows size 800 x 400mm high each glazed with 6.38mm safety glass and louvre unit size 800 x 400mm high.

No

16

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 16
X : 0			

- 66 Window louvre unit Type TA 102 size 1800 x 600mm high overall, formed of two windows size 600 x 600mm high each glazed with 6.38mm safety glass and louvre unit size 600 x 600mm high.

No

28

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 28
X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

67 Window louvre unit Type TA 103 size 2700 x 600mm high overall, formed of two windows size 900 x 600mm high each glazed with 6.38mm safety glass and louvre unit size 900 x 600mm high.

No

8

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 8
X : 0			

68 Window louvre unit Type TA 109 size 3200 x 700mm high overall, formed of two windows size 900 x 700mm high each glazed with 6.38mm safety glass and louvre unit size 900 x 600mm high.

No

1

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 1
X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

**Purpose Made Powder Coated Matt Stone Grey Pre-
Glazed Aluminium Doors, Shopfronts with
approved 6.38mm Intruderproof Laminated Safety
Clear Glass , Manufactured On The Specified
System Complying With The AAMSA, SAGA, NBR
And SANS Codes Of Practice, (Hinges And
Ironmongery Elsewhere Measured), Including
Manifestation Grid Design Neoprene Gaskets,
Setting Up, Building In, Filling Back Of Frame With
Cement Mortar, Etc. with Flexothane White Silicone
All Round Pointing To Frame All As Per Detail
Drawings Issued With These Bills Of Quantities**

- 69 Sloping Shopfront type DAL07 size 4240 x 4720mm high overall with double door size 1800 x 2125mm high with two side window opening section size 1300 x 1185mm high with two bottom side lights glazed manifestation size 1300 x 940mm high and with two top louvre unit size 1300 x 555mm, one louvre unit size 1890 x 555mm high and top lights with manifestation size 4400 x 725mm high with the sloping top size 4240 x 1495mm high on one side and 1110mm high on the other side

No

4

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 4
X : 0			

- 70 Shopfront type DAL08 size 4400 x 3315mm high overall with double door size 1800 x 2125mm high with two side window opening section size 1300 x 1185mm high with two bottom side lights glazed manifestation size 1300 x 940mm high and with two top louvre unit size 1300 x 555mm, one louvre unit size 1890 x 555mm high and top lights with manifestation size 4400 x 725mm high

No

2

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 2
X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

**Purpose Made Powder Coated Matt Stone Grey Pre-
Glazed Aluminium Doors, Shopfronts with approved
6.38mm Intruderproof Laminated Safety Clear Glass
, Manufactured On The Specified System Complying
With The AAMSA, SAGA, NBR And SANS Codes Of
Practice, (Hinges And Ironmongery Elsewhere
Measured), On Issued Drawings, Neoprene Gaskets,
Setting Up, Building In, Filling Back Of Frame With
Cement Mortar, Etc. with Flexothane White Silicone
All Round Pointing To Frame All As Per Detail
Drawings Issued With These Bills Of Quantities**

71	Window size Type TA001, size 2400 x 1200mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 3 X : 0	No	3		
72	Window size Type TA002,size 1500 x 1190mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 4 X : 0	No	4		
73	Window size Type TA003,size 1500 x 1190mm high glazed with one way vision film 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 2 X : 0	No	2		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

74	Window size Type TA004,size 3895 x 2720mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 1 X : 0	No	1		
75	Shopfront type DAL 1 size 3000 x 2125mm high overall with double door size 1800 x 2125 and side lights size 600 x 2125mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 12 X : 0	No	12		
76	Shopfront type DAL01L size 3000 x 2720mm high overall with double door size 1800 x 2125 and side lights size 600 x 2125mm high and top lights size 3000 x 600mm high 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 1 X : 0	No	1		
77	Shopfront type DAL02 size 3500 x 2720mm high overall 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 2 X : 0	No	2		
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 10 Metalwork					R

78	Shopfront type DAL04 size 1000 x 2720mm high overall with single door size 1000 x 2125 and top lights size 1000 x 595mm high	No	2
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 2		
	X : 0		
79	Shopfront type DAL05 size 1600 x 2125mm high overall with single door size 990 x 2125 and side lights size 655 x 2125mm high	No	8
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 8		
	X : 0		
80	Shopfront type DAL06 size 2400 x 2125mm high overall with single door size 990 x 2125 and side lights size 1455 x 2125mm high	No	2
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 2		
	X : 0		
81	Shopfront type DAL09 size 3500 x 2125mm high overall with sliding door size 1670 x 2125 and side lights size 1875 x 2125mm high	No	4
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 4		
	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

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"Shower Concepts Elite" or similar approved 6 mm obscured toughened safety glass frameless door with sidelight and return panel shower enclosure 2000mm high, with pair of back to back pull handles code (H 01) and all necessary hinges, clamps and PVC seals and wipes, all set up complete to walls.

86	Pivot door 1000 x 1800mm high	No	36		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 2				
	I : 0 J : 0 K : 2 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 32				
87	Fixed panel 1000 x 1800mm high	No	36		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 2				
	I : 0 J : 0 K : 2 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 32				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			

	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete</u>			
1	25mm Thick on floors and landings	m2	7	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 7			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 0			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
2	30mm Thick on floors	m2	12,950	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 1425 B : 2304 C : 717 D : 459			
	E : 0 F : 6003 G : 63 H : 194			
	I : 0 J : 0 K : 324 L : 0			
	M : 0 N : 1461 O : 0 W : 0			
	X : 0			
	Carried to Collection			R
	Section No. 2 BUILDING WORKS Bill No. 11 Plastering			

3	30mm Thick on floors to falls	m2	298		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 68 B : 138 C : 92 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
4	60mm Thick (average) on roofs graded to falls.	m2	72		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 72 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
<u>INTERNAL PLASTER</u>					
<u>Cement plaster on brickwork</u>					
5	On walls	m2	24,107		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 24107				
6	On narrow widths	m2	3,731		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 396 B : 987 C : 91 D : 132				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 14 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2111				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 11
Plastering

R

<u>Steel troweled cement plaster on concrete</u>							
7	On Soffits of slabs			m2	79		
	1 : 0 2 : 0 4 : 0 7 : 0						
	A : 72 B : 0 C : 0 D : 7						
	E : 0 F : 0 G : 0 H : 0						
	I : 0 J : 0 K : 0 L : 0						
	M : 0 N : 0 O : 0 W : 0						
	X : 0						
<u>EXTERNAL PLASTER</u>							
<u>Steel troweled cement plaster on brickwork</u>							
8	On walls			m2	2,806		
	1 : 0 2 : 0 4 : 0 7 : 0						
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 2042 G : 0 H : 215						
	I : 0 J : 0 K : 549 L : 0						
	M : 0 N : 0 O : 0 W : 0						
	X : 0						
9	On narrow widths			m2	28		
	1 : 0 2 : 0 4 : 0 7 : 0						
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 16						
	I : 0 J : 0 K : 12 L : 0						
	M : 0 N : 0 O : 0 W : 0						
	X : 0						
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>							
10	M•Trim 38 x 1,2mm Aluminium Retro-fit Corner Protector or similar approved			m	119		
	1 : 0 2 : 0 4 : 0 7 : 0						
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 87						
	I : 0 J : 0 K : 32 L : 0						
	M : 0 N : 0 O : 0 W : 0						
	X : 0						
Carried to Collection							
Section No. 2 BUILDING WORKS Bill No. 11 Plastering						R	

11	M-Trim (Code: ASE120.NA) or other approved aluminium straight edge trim	m	269		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 36 B : 72 C : 24 D : 47 E : 0 F : 0 G : 0 H : 57 I : 0 J : 0 K : 33 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0				

SPECIALIST PLASTER WALL COATINGS

Prepare substrate by removing all loose and friable material. Plaster should be a fine wood float finish with a confirmed moisture reading of < 15%. (Apply 1 to 2 coats Marmoran Skimfill with a steel towel to achieve an optically flat surface free of imperfections where necessary.) Apply one coat Marmoran RLP Textured Acrylic Primer. Once cured, Apply the Marmolite Background Plaster by steel trowel, meter to a constant coating thickness, while wet cast in 1.5mm Marmolite Crystals. Allow to cure for 24 hours. Apply 2 coats Marmoran Glaze 15 by brush or sheep skin roller to seal and protect the coating. Crosshatch to achieve complete obliteration. Allow for drying time between coats. All in strict accordance with Manufactures specification.

12	Walls.	m2	21		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 21 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 11
Plastering

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO 12</u></p> <p><u>FLOOR COVERINGS</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>FLOOR COVERINGS</u></p> <p><u>Vinyl Flooring</u></p>			
1	<p>Surestep Original Cement 171772 Polyflor 2mm thick 2000 PUR lifelong polish free homogeneous or other approved vinyl floor, laid in acrylic adhesive spread with a notched trowel, joints welded using a fully flexible coloured Polyflor or other approved welding rod to provide a smooth, hygienic sealed finish, rolled with 68kg articulated floor roller on suitable self levelling screed (Self levelling screed elsewhere measured) with a moisture content of less than 70% hygrometer reading, all in accordance with manufacturer's recommendation.</p> <div style="display: flex; justify-content: space-between;"> 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 6003 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0 </div>	m2	6,003	
	Carried to Collection		R	
	Section No. 2 BUILDING WORKS Bill No. 12 Floor Coverings			

2	<p>Surestep Original Umber 171262 Polyflor 2mm thick 2000 PUR lifelong polish free homogeneous or other approved vinyl floor, laid in acrylic adhesive spread with a notched trowel, joints welded using a fully flexible coloured Polyflor or other approved welding rod to provide a smooth, hygienic sealed finish, rolled with 68kg articulated floor roller on suitable self levelling screed (Self levelling screed elsewhere measured) with a moisture content of less than 70% hygrometer reading, all in accordance with manufacturer's recommendation.</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 3344 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p>	m2	3,344		
3	<p>On turn-ups against walls 100mm high (cove fillet elsewhere measured).</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 585 B : 762 C : 114 D : 0 E : 0 F : 1962 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p> <p><u>12.5mm Thick Belgotex Or Other Approved Synthetic Turf Laid In Strict Accordance With The Manufacturer`s Instructions (Provisional)</u></p>	m	3,423		
4	<p>On Concrete Floors</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 393 O : 0 W : 0 X : 0</p>	m2	393		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 12
Floor Coverings

Anti-static floor - FloorWorX PrimoSD Sheetting:
Supply and fix 2,0mm thick x 2,0m wide FloorWorX
Primo SD non-directional static dissipative vinyl
sheetting, manufactured in accordance with EN649
and laid over an earthed grid of aluminium or
copper tape in FloorworX No. 27 acrylic conductive
adhesive which has been spread using a trowel
fitted with an A2 notched blade at a rate of between
5,5m2 and 6,5m2 per litre on a previously prepared
Class 1 sub-floor in accordance with SANS10070,
using reliable self-leveller when required, including
all cutting and waste. The sheetting must be rolled in
both directions with and articulated 68kg three-
sectional roller immediately after it has been laid
into the adhesive. Joins must be butted, grooved
and heat welded using the manufacturer's welding
rod, ensuring that the welding rod bonds to more
than 70% of the sheet thickness. After completing
the installation the floor must be electrically tested
for resistivity in accordance with the requirements
of SANS 6160. Colour: Medium Dark Pure Grey
FSD562

5	On floors	m2	5
	1 : 0	2 : 0	4 : 0
	A : 0	B : 0	C : 0
	E : 0	F : 0	G : 0
	I : 0	J : 0	K : 0
	M : 0	N : 0	O : 0
	X : 0		

"EPDM RAL 6021" or similar approved rubber
flooring

6	On floors	m2	144
	1 : 0	2 : 0	4 : 0
	A : 144	B : 0	C : 0
	E : 0	F : 0	G : 0
	I : 0	J : 0	K : 0
	M : 0	N : 0	O : 0
	X : 0		

SUNDRIES

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 12
Floor Coverings

R

**Polyflor Or Other Approved Black Vinyl Accessories
Fixed With Adhesive**

7	26mm High covered cover fillet, fixed at junction of screed and wall.	m	3,972		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 612 B : 1678 C : 228 D : 0				
	E : 0 F : 1454 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

8	6 x 35mm Capping strip, fixed to top of vinyl turn-ups.	m	4,900		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 1224 B : 1680 C : 542 D : 0				
	E : 0 F : 1454 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

Levelling screed

9	Pavelite or other approved levelling screed applied to newly screeded floors to receive vinyl flooring.	m2	9,347		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 9347 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

Vinyl Sealing

10	Clean down vinyl surfaces with one coat water based floor stripper and apply three coats non-slip acrylic emulsion dressing complying with SANS approved finish.	m2	9,347		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 9347 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 12
Floor Coverings

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u> <u>BUILDING WORK</u> <u>BILL NO.13</u> <u>TILING</u> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions</u> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <u>WALL TILING</u> <u>200 x 200mm x 9mm White glazed ceramic wall tiles (or similar approved) to be laid with manufactures approved tiling adhesive and white tiling grout. CTM code: WS10SH100L</u>			
1	On walls in isolated panels, splashbacks, etc <div style="display: flex; justify-content: space-between;"> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>A : 27</div> <div>B : 0</div> <div>C : 0</div> <div>D : 16</div> </div> <div style="display: flex; justify-content: space-between;"> <div>E : 0</div> <div>F : 0</div> <div>G : 4</div> <div>H : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div> <div style="display: flex; justify-content: space-between;"> <div>X : 0</div> <div></div> <div></div> <div></div> </div>	m2	47	
	Carried to Collection			
	Section No. 2 BUILDING WORKS Bill No. 13 Tiling			
			R	

2	On walls	m2	1,891	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 224 B : 450 C : 0 D : 27			
	E : 0 F : 353 G : 0 H : 79			
	I : 0 J : 0 K : 495 L : 0			
	M : 0 N : 263 O : 0 W : 0			
	X : 0			
3	On narrow widths	m2	35	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 6 B : 12 C : 0 D : 6			
	E : 0 F : 0 G : 0 H : 11			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 0			
<u>FLOOR TILING</u>				
<u>50 x 50 x 10mm Thick mosaic tiles (Prime Cost of R 300/m2 including delivery to site and excluding VAT) fixed with adhesive to and including 30mm plaster bedding to falls on concrete and flush pointed with tinted waterproof jointing compound</u>				
4	On floors to falls	m2	248	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 232 G : 0 H : 4			
	I : 0 J : 0 K : 12 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 0			
<u>400 x 400 x 9.5mm Porcelain floor tiles (PC R250.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound</u>				
5	On floors and landings	m2	2,467	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 265 B : 516 C : 230 D : 459			
	E : 0 F : 416 G : 63 H : 194			
	I : 0 J : 0 K : 324 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 0			

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 13
Tiling

R

6	Skirting formed of porcelain tile cut to 400 x 75mm high	m	912		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 612				
	E : 0 F : 0 G : 0 H : 84				
	I : 0 J : 0 K : 216 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
	<u>Sundries</u>				
7	M•Trim 25 x 25mm Aluminium Angle or similar approved; to edge of concrete or similar approved. To be secured with screws	m	486		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 43				
	E : 0 F : 328 G : 6 H : 84				
	I : 0 J : 0 K : 25 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
8	The M•Trim Aluminium Straight Edge Trim or similar approved. Depth to match tile selected	m	982		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 61 B : 123 C : 82 D : 177				
	E : 0 F : 412 G : 13 H : 42				
	I : 0 J : 0 K : 72 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 13
Tiling

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.14</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>"Polycop" polypropylene pipes:</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>"Polylink" polypropylene pipes:</u></p> <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p> <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p> <p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 14</p> <p>Plumbing and Drainage</p>			

Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers

Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same

All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions

All pipe diameters are nominal external

Concrete pipes:

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

Vitrified clay pipes:

Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

uPVC pipes and fittings:

Soil, waste and vent pipes and fittings shall be solvent weld jointed

uPVC pressure pipes and fittings:

Pipes for water supply shall be of the class stated

Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

Copper pipes:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

Lead pipes and fittings

All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Septic tanks

Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc. of pipes

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

Stainless steel basins, sinks, wash troughs, urinals, etc.

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

Steel sectional water tanks

Tanks shall comply with SABS CKS 114

"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc

RAINWATER DISPOSAL

0,6mm Ogee Profile aluminium gutter or similar approved; complete with fixing clips

1	100 x 125mm Eaves gutters with beaded front edge	m	1,244
	1 : 0 2 : 0 4 : 0 7 : 0 A : 138 B : 276 C : 92 D : 73 E : 0 F : 428 G : 66 H : 44 I : 0 J : 0 K : 35 L : 0 M : 0 N : 92 O : 0 W : 0 X : 0		
2	Extra over eaves gutter for angle	No	130
	1 : 0 2 : 0 4 : 0 7 : 0 A : 12 B : 24 C : 8 D : 12 E : 0 F : 44 G : 8 H : 4 I : 0 J : 0 K : 6 L : 0 M : 0 N : 12 O : 0 W : 0 X : 0		
3	Extra over eaves gutter for stopped end	No	130
	1 : 0 2 : 0 4 : 0 7 : 0 A : 12 B : 24 C : 8 D : 12 E : 0 F : 44 G : 8 H : 4 I : 0 J : 0 K : 6 L : 0 M : 0 N : 12 O : 0 W : 0 X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

R

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	<u>15 MPa/20 mm concrete</u>		
8	Stormwater channel cast in panels 1 : 0 2 : 0 4 : 0 7 : 0 A : 12 B : 24 C : 8 D : 19 E : 0 F : 0 G : 31 H : 27 I : 0 J : 0 K : 27 L : 0 M : 0 N : 87 O : 0 W : 0 X : 0	m3	235
	<u>SOIL DRAINAGE</u>		
	<u>uPVC pipes</u>		
9	110mm Pipes vertically or ramped to cleaning eye etc (no excavation) 1 : 0 2 : 0 4 : 0 7 : 0 A : 24 B : 48 C : 0 D : 16 E : 0 F : 248 G : 6 H : 16 I : 0 J : 0 K : 24 L : 0 M : 0 N : 124 O : 0 W : 0 X : 0	m	506
10	110mm Pipes laid in and including trenches not exceeding 1m deep 1 : 0 2 : 0 4 : 0 7 : 0 A : 273 B : 0 C : 0 D : 203 E : 0 F : 0 G : 41 H : 102 I : 0 J : 0 K : 121 L : 0 M : 0 N : 135 O : 0 W : 0 X : 0	m	875
	<u>Extra over uPVC pipes for fittings</u>		
11	110mm Access bend 1 : 0 2 : 0 4 : 0 7 : 0 A : 12 B : 24 C : 0 D : 8 E : 0 F : 0 G : 24 H : 26 I : 0 J : 0 K : 25 L : 0 M : 0 N : 23 O : 0 W : 0 X : 0	No	142

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

12	110mm Access junction	No	203
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 48 B : 0 C : 0 D : 41		
	E : 0 F : 0 G : 31 H : 24		
	I : 0 J : 0 K : 27 L : 0		
	M : 0 N : 32 O : 0 W : 0		
	X : 0		
13	110mm Bend	No	198
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 36 B : 0 C : 0 D : 32		
	E : 0 F : 0 G : 8 H : 36		
	I : 0 J : 0 K : 32 L : 0		
	M : 0 N : 54 O : 0 W : 0		
	X : 0		
14	110mm Junction	No	158
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 12 B : 24 C : 0 D : 8		
	E : 0 F : 64 G : 4 H : 13		
	I : 0 J : 0 K : 12 L : 0		
	M : 0 N : 21 O : 0 W : 0		
	X : 0		
15	110mm uPVC rodding eye cover in end of pipe	No	101
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 41		
	E : 0 F : 0 G : 24 H : 12		
	I : 0 J : 0 K : 12 L : 0		
	M : 0 N : 12 O : 0 W : 0		
	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

<u>Pre-cast concrete gulleys</u>					
16	110mm Dished gulley not exceeding 1m deep with 150mm steel grate and standard concrete gulley surround	No	35		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 6 B : 12 C : 0 D : 1				
	E : 0 F : 8 G : 0 H : 2				
	I : 0 J : 0 K : 2 L : 0				
	M : 0 N : 4 O : 0 W : 0				
	X : 0				
<u>Chambers</u>					
<u>Inspection chambers (covers elsewhere)</u>					
17	Inspection chamber 450 x 600mm x exceeding 750mm and not exceeding 1000mm deep internally	No	10		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 10				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
<u>Covers, etc</u>					
18	450 x 600mm x 74kg Type 8A cast iron double seal manhole cover and frame	No	10		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 10				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 14 Plumbing and Drainage					R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

	Sundries				
19	100mm Cast iron "ABC" cleaning eye	No	101		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 41				
	E : 0 F : 0 G : 24 H : 12				
	I : 0 J : 0 K : 12 L : 0				
	M : 0 N : 12 O : 0 W : 0				
	X : 0				
20	Precast concrete inspection eye marker slab set in ground	No	101		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 41				
	E : 0 F : 0 G : 24 H : 12				
	I : 0 J : 0 K : 12 L : 0				
	M : 0 N : 12 O : 0 W : 0				
	X : 0				
21	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	123		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 41				
	E : 0 F : 42 G : 4 H : 12				
	I : 0 J : 0 K : 12 L : 0				
	M : 0 N : 12 O : 0 W : 0				
	X : 0				
22	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	93		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 21				
	E : 0 F : 34 G : 4 H : 8				
	I : 0 J : 0 K : 11 L : 0				
	M : 0 N : 15 O : 0 W : 0				
	X : 0				
	<u>SANITARY FITTINGS</u>				
	Carried to Collection			R	
	Section No. 2 BUILDING WORKS Bill No. 14 Plumbing and Drainage				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

"VANSTONE" or similar approved

- 26 Reinforced concrete double compartment wash trough with outlets and three pedestals size 1400 x 530 x 340mm deep.

No

23

1 : 0	2 : 0	4 : 0	7 : 0
A : 6	B : 12	C : 0	D : 1
E : 0	F : 0	G : 0	H : 1
I : 0	J : 0	K : 1	L : 0
M : 0	N : 2	O : 0	W : 0
X : 0			

WC01

- 27 Lecico Neon front flush close coupled WC colour White, 100mm outlet with cistern connected to 15mm water supply with foot of bowl sealed to floor with abe Dow Corning acetoxysilicone sealant.

- Material: Vitreous China
- Pan code: NEOBOXFFL0MDFBE
- Height: 380mm
- Width: 630mm
- Depth: 759mm.

No

31

1 : 0	2 : 0	4 : 0	7 : 0
A : 6	B : 12	C : 0	D : 2
E : 0	F : 8	G : 1	H : 0
I : 0	J : 0	K : 2	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

28	<p>Lecico Atlas raised paraplegic CC WC with side lever and grab rails combo colour White 100mm outlet with cistern connected to 15mm water supply with foot of bowl sealed to floor with abe Dow Corning acetoxysilicone sealant.</p> <ul style="list-style-type: none"> • Material: Vitreous China • Pan code: PARSETCCB0RAIBE • Height: 855mm • Width: 443mm • Depth: 731mm. 	No	44
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 6 B : 12 C : 0 D : 1</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 25</p>		
29	<p>Lecico Junior Elf School WC set colour White, 100mm outlet with cistern connected to 15mm water supply with foot of bowl sealed to floor with abe Dow Corning acetoxysilicone sealant.</p> <ul style="list-style-type: none"> • Material: Vitreous China • Pan code: SCHBOXLLB0ELFBE • Height: 445mm • Width: 434mm • Depth: 916mm. 	No	48
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 48</p>		
30	<p>32mm FM1.100 Flushmaster with paraplegic extended handle</p>	No	44
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 6 B : 12 C : 0 D : 1</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 25</p>		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

Urinal

31	<p>Lecico Atlas 40cm urinal colour White, with back inlet and waste outlet including wall mounting brackets and connected to water supply, sealed with silicone sealant where urinal meets wall.</p> <ul style="list-style-type: none"> • Material: Vitreous China • Urinal code: ATLBOXURI0B40BE • Height: 380mm • Width: 295mm • Depth: 500mm • Spreader: back entry • Waste Option: waterless option 	No	19		
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 6 B : 12 C : 0 D : 1</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>				
32	<p>Flushmaster FJ 6.000 urinal flushvalve including FJT5.1 tailpipe</p>	No	19		
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 6 B : 12 C : 0 D : 1</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

WHB

- 33 Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxysilicone sealant where basin meets wall.
- Material: Vitreous China
 - Basin code: (ATLBASWHU0500UE)
 - Height: 500mm
 - Width: 410mm
 - Depth: 480mm.

No

80

1 : 0	2 : 0	4 : 0	7 : 0
A : 54	B : 12	C : 0	D : 2
E : 0	F : 8	G : 1	H : 0
I : 0	J : 0	K : 3	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

- 34 Lecico Atlas 50cm Medical basin with brackets colour White fixed with stainless steel screws and washers to plugs in wall with optional concealed wall brackets sealed with abe Dow Corning acetoxysilicone sealant where basin meets wall.
- Material: Vitreous China
 - Basin code: ATLDUOMED0500UE
 - Height: 210mm
 - Width: 510mm
 - Depth: 410mm.

No

19

1 : 0	2 : 0	4 : 0	7 : 0
A : 6	B : 12	C : 0	D : 1
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

35	<p>Lecico Atlas 60cm Medical basin with brackets colour White fixed with stainless steel screws and washers to plugs in wall with optional concealed wall brackets sealed with abe Dow Corning acetoxysilicone sealant where basin meets wall.</p> <ul style="list-style-type: none"> • Material: Vitreous China • Basin code: ATLDUOMED0600UE • Height: 210mm • Width: 600mm • Depth: 492mm. 	No	62		
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 56 G : 0 H : 2</p> <p>I : 0 J : 0 K : 4 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>				
36	<p>1000 x 1000mm "Quadri Style 900" porcelain enamelled shower tray</p>	No	59		
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 56 G : 0 H : 1</p> <p>I : 0 J : 0 K : 2 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>				
	<u>"Cobra Watertech" or similar approved</u>				
37	<p>"Cobra Watertech Star" or similar approved 15mm chrome plated pillar tap (Code: 111-15) with cold indices, manufactured in accordance with SANS 226: 2009 Type 1 (BS 5412).</p>	No	95		
	<p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 12 B : 24 C : 0 D : 2</p> <p>E : 0 F : 56 G : 1 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 0</p>				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

38	"Cobra Watertech" or similar approved 32mm chrome plated waste (Code: 309-32) with anti-theft plug and spindle.	No	115		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 18 B : 36 C : 0 D : 4				
	E : 0 F : 56 G : 1 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
39	"Cobra Watertech" or similar approved Capnut (C-342/2)- For Bottle Trap, Chrome Plated. To suit 340-G1.1/4 Bottle Traps.	No	115		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 18 B : 36 C : 0 D : 4				
	E : 0 F : 56 G : 1 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
40	"Cobra Watertech" or similar approved Tail Pipe (C-342/1)-Bottle Trap, 35mm x 200mm long, Chrome Plated. To suit 340-G1.1/4 Bottle Traps.	No	79		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 6 B : 12 C : 0 D : 4				
	E : 0 F : 56 G : 1 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
41	"Cobra Watertech" or similar approved Angle Valve (832/350F).	No	285		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 36 B : 72 C : 0 D : 8				
	E : 0 F : 168 G : 1 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 14 Plumbing and Drainage					R

"Grohe"or similar approved shower head

42	Grohe- Relexa Sports Head Shower 57mm Chrome Low aerosol emission heavy, casted model theft proof connection thread 1/2 projection 58 mm flow limiter 9 l/min. and 12 l/min. GROHE DreamSpray perfect spray pattern GROHE StarLight chrome finish SpeedClean anti-lime system Inner WaterGuide for a longer life suicide-resisting design pipe union plug-in for wall connection min. recommended pressure 1.0 bar Product Code (B 124105) fixed in position all in accordance with manufacturers instruction	No	56
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 56 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		
43	Blutude Bore Concealed Mixer Code: B/054977	No	56
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 56 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		
44	75mm brass shower trap type SL50 with chromium plated grating waste	No	56
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 56 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

BATHS

45	"Plexicor Alexa 1800" acrylic bath with integrated arm rests in colour White, overall size 1800 x 900 x 460mm high supported on 38 x 38mm timber battens fixed to adjacent walls and bed in 1:5 cement mortar on a brick bed, three bricks wide for full length of bath with the void between the bath and enclosing wall filled with 1:10 uncompacted cement mix and point all round with mildew resistant silicone between bath and tiles, all in accordance with the manufacturer's specifications or similar approved.	No	60		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 56 G : 0 H : 2				
	I : 0 J : 0 K : 2 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

WASTE UNIONS ETC

"Cobra Watertech"

46	38mm "Cobra 316" unslotted waste and plug with chain	No	136		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 6 B : 12 C : 0 D : 1				
	E : 0 F : 112 G : 1 H : 2				
	I : 0 J : 0 K : 2 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

TRAPS ETC

"Marley"

47	40mm "Flexi" bath trap and overflow combination	No	60		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 56 G : 0 H : 0				
	I : 0 J : 0 K : 4 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

TAPS, VALVES, ETC

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

	<u>"Cobra Watertech"</u>				
48	Ref. 149 "Carina" wall type mixer including "Selecta" handshower set, flexible hose and conical cradle	No	56		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 56 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
49	50mm Pipes	m	702		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 114 B : 228 C : 0 D : 26				
	E : 0 F : 242 G : 11 H : 22				
	I : 0 J : 0 K : 21 L : 0				
	M : 0 N : 38 O : 0 W : 0				
	X : 0				
50	50mm Pipes laid in and including trenches not exceeding 1m deep	m	763		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 39 B : 78 C : 0 D : 32				
	E : 0 F : 486 G : 21 H : 32				
	I : 0 J : 0 K : 31 L : 0				
	M : 0 N : 44 O : 0 W : 0				
	X : 0				
51	110mm Pipes	m	408		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 36 B : 72 C : 0 D : 21				
	E : 0 F : 190 G : 12 H : 18				
	I : 0 J : 0 K : 16 L : 0				
	M : 0 N : 43 O : 0 W : 0				
	X : 0				
	Carried to Collection				
	Section No. 2				
	BUILDING WORKS				
	Bill No. 14				
	Plumbing and Drainage				
				R	

	<u>Extra over uPVC pipes for fittings</u>								
52	50mm Bend				No	293			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 27	B : 54	C : 0	D : 34					
	E : 0	F : 126	G : 4	H : 8					
	I : 0	J : 0	K : 12	L : 0					
	M : 0	N : 28	O : 0	W : 0					
	X : 0								
53	50mm Access bend				No	396			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 36	B : 72	C : 0	D : 28					
	E : 0	F : 204	G : 4	H : 4					
	I : 0	J : 0	K : 4	L : 0					
	M : 0	N : 44	O : 0	W : 0					
	X : 0								
54	50mm BSP adaptor				No	325			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 24	B : 48	C : 0	D : 16					
	E : 0	F : 204	G : 1	H : 4					
	I : 0	J : 0	K : 6	L : 0					
	M : 0	N : 22	O : 0	W : 0					
	X : 0								
55	110mm Bend				No	470			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 12	B : 24	C : 0	D : 12					
	E : 0	F : 408	G : 6	H : 4					
	I : 0	J : 0	K : 4	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 0								
56	110mm Pan Connector				No	100			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 12	B : 24	C : 0	D : 3					
	E : 0	F : 56	G : 1	H : 2					
	I : 0	J : 0	K : 2	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 0								
Carried to Collection									
Section No. 2									
BUILDING WORKS									
Bill No. 14									
Plumbing and Drainage									

R

57	110mm "GI Two-way" vent valve	No	100
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 12 B : 24 C : 0 D : 3		
	E : 0 F : 56 G : 1 H : 2		
	I : 0 J : 0 K : 2 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		
	<u>Sundries</u>		
58	Testing waste pipe system	Item	
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00		
	A : 0.00 B : 0.00 C : 0.00 D : 0.00		
	E : 0.00 F : 0.00 G : 0.00 H : 0.00		
	I : 0.00 J : 0.00 K : 0.00 L : 0.00		
	M : 0.00 N : 0.00 O : 1.00 W : 0.00		
	X : 0.00		
	<u>WATER SUPPLIES</u>		
	<u>Class 16 uPVC pressure pipes with solvent welded joints</u>		
59	32mm Pipes laid in and including trenches not exceeding 1m deep	m	234
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 234		
60	50mm Pipes laid in and including trenches not exceeding 1m deep	m	156
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 156		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

<u>Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints</u>									
61	32mm Bend				No	71			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 71								
62	32mm Reducer				No	12			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 12								
63	32mm Tee				No	68			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 68								
64	50mm Bend				No	47			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 47								
65	50mm Tee				No	31			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 31								
Carried to Collection									
Section No. 2 BUILDING WORKS Bill No. 14 Plumbing and Drainage							R		

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

66	35 x 50 x 35mm Junction	No	23		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 23				
	<u>Class 0 copper pipes</u>				
67	15mm Pipes	m	819		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 819				
68	22mm Pipes	m	1,022		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1022				
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
69	15mm Fittings	No	789		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 789				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 14 Plumbing and Drainage				R	

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

70	22mm Fittings	No	912	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 912			
	<u>Brass</u>			
71	15mm Fullway gate valve	No	17	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 17			
72	22mm Fullway gate valve	No	22	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 22			
	<u>Sundries</u>			
73	Testing water pipe system		Item	
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00			
	A : 0.00 B : 0.00 C : 0.00 D : 0.00			
	E : 0.00 F : 0.00 G : 0.00 H : 0.00			
	I : 0.00 J : 0.00 K : 0.00 L : 0.00			
	M : 0.00 N : 0.00 O : 1.00 W : 0.00			
	X : 0.00			

ELECTRIC WATER HEATERS

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

"Kwikot"

- 74 Kwikot 25 litre KwikBoil (code: KWIKBOIL-25), size 900 x 255 x 613mm high with stainless steel tank, steam free boiling water, electronic controls, 15mm overflow, connected to 15mm cold water supply including isolating valve and 230 volt 3000 watt electrical power supply, plugged and screwed to wall and fitted under 1 year warranty.

No

19

1 : 0 2 : 0 4 : 0 7 : 0
A : 6 B : 12 C : 0 D : 1
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

- 75 Kwikot 200 Litre Slimline 600 Dual electric water heater (Code : ESG-100) complying with SABS 151-2002, overall size 990 x 480mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be installed horizontally in roof space with 1160 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code : GSTP-1200) and 15mm pipe work including two 15mm vacuum breakers (Code : KHN4.150CX) installed on hot and cold water supply. Installation to include a 15mm 400kPa Kwikot Mono control and expansion relief valve (Code : KHN3.104), all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.

No

3

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 1
I : 0 J : 0 K : 2 L : 0
M : 0 N : 0 O : 0 W : 0
X : 0

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

76	<p>Kwikot 300 Litre Slimline 600 Dual electric water heater (Code : ESG-100) complying with SABS 151-2002, overall size 990 x 480mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be installed horizontally in roof space with 1160 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code : GSTP-1200) and 15mm pipe work including two 15mm vacuum breakers (Code : KHN4.150CX) installed on hot and cold water supply. Installation to include a 15mm 400kPa Kwikot Mono control and expansion relief valve (Code : KHN3.104), all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.</p>	No	4
	<p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 4 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p>		

WATER SUPPLIES TO FIRE APPLIANCES

GMS pipe with threaded joints

77	25mm Pipes	m	1,150
	<p>1 : 0 2 : 0 4 : 0 7 : 0 A : 99 B : 198 C : 66 D : 122 E : 0 F : 642 G : 23 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p>		

Extra over class 0 copper pipes for capillary fittings

78	25mm Fittings	No	547
	<p>1 : 0 2 : 0 4 : 0 7 : 0 A : 63 B : 126 C : 42 D : 86 E : 0 F : 218 G : 12 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0</p>		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

R

FIRE APPLIANCES ETC

'Chubb'

79	9kg Dry chemical powder fire extinguisher, including standard hard wood backing plugged and backing finished with one coat dark stain and two coats clear suede polyurethane varnish	No	45		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 6 B : 12 C : 4 D : 6				
	E : 0 F : 16 G : 1 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				
80	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	24		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 3 B : 6 C : 2 D : 2				
	E : 0 F : 8 G : 1 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 2 O : 0 W : 0				
	X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

Section No. 2			
BUILDING WORKS			
Bill No. 14			
Plumbing and Drainage			
COLLECTION			
Total Brought Forward from Page No.	Page No	Amount	
	241		
	242		
	243		
	244		
	245		
	246		
	247		
	248		
	249		
	250		
	251		
	252		
	253		
	254		
	255		
	256		
	257		
	258		
	259		
Carried Forward	R		
Section No. 2			
BUILDING WORKS			
Bill No. 14			
Plumbing and Drainage			

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO. 15</u></p> <p><u>GLAZING</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>6mm Clear safety float glass</u></p>			
1	<p>Panes exceeding 0,1m2 and not exceeding 0,5m2</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 6</p> <p>X : 0</p>	m2	6	
	<p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></p>			

4 mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete

- 2 600 x 400 x 6mm polished plate glass mirrors with square polished edges holed for and plugged with chrome plated detachable chrome plated screws. Above all WHB. CTM Code: BSMR4060R) or similar approved

No

80

1 : 0	2 : 0	4 : 0	7 : 0
A : 12	B : 0	C : 0	D : 3
E : 0	F : 56	G : 1	H : 4
I : 0	J : 0	K : 4	L : 0
M : 0	N : 0	O : 0	W : 0
X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 15
Glazing

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO. 16</u>			
	<u>PAINTWORK</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	Dulux Double Velvet to interior new cement plaster (NW 200).Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Dulux Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Double Velvet (VEL) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.			
1	On internal walls 1 : 0 2 : 0 4 : 0 7 : 0 A : 4545 B : 0 C : 942 D : 1397 E : 0 F : 14178 G : 515 H : 570 I : 0 J : 0 K : 1464 L : 0 M : 0 N : 4227 O : 0 W : 0 X : 0	m2	27,838	
	Carried to Collection			R
	Section No. 2 BUILDING WORKS Bill No. 16 Paintwork			

Dulux Weather guard to exterior new cement plaster (NW 100).Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Dulux Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Weather guard with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

2	On external walls	m2	2,612		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 21				
	E : 0 F : 2042 G : 0 H : 0				
	I : 0 J : 0 K : 549 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

ON SMOOTH CONCRETE

Prepare surfaces and remove all loose material, and rinse. Apply flexible crackfiller to holes and cracks, one coat plaster primer and two coats Plascon Professional Copolymer Acrylic paint

3	On ceilings, beams, walls and columns	m2	79		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 72 B : 0 C : 0 D : 7				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 0				

ON FIBRE-CEMENT

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 16
Paintwork

R

Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.

4	On fascias and barge boards	m2	544
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 137 B : 209 C : 139 D : 59		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.

5	On window sills not exceeding 300 mm girth	m	1,163
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 108 B : 230 C : 77 D : 189		
	E : 0 F : 538 G : 21 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

ON METAL

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 16
Paintwork

ON WOOD

R

-277-

Plascon Velvagio Satin to interior new wood (NW 571).Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvagio Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

9	On doors	m2	996
	1 : 0 2 : 0 4 : 0 7 : 0 A : 159 B : 318 C : 52 D : 112 E : 0 F : 349 G : 7 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0		

Three coats matt varnish

10	On doors	m2	284
	1 : 0 2 : 0 4 : 0 7 : 0 A : 23 B : 48 C : 32 D : 0 E : 0 F : 174 G : 7 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0		

11	On skirtings, rails, cornices etc not exceeding 300 mm girth	m	238
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 238 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 0		

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 16
Paintwork

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>EXTERNAL WORK</u></p> <p><u>BILL NO. 1</u></p> <p><u>COURTYARDS (PROVISIONAL)</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to Section No. 3</u></p> <p>The Contractor is referred to the previous Section 2 for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this Bill, unless specifically otherwise described</p> <p><u>Pre-cast concrete paving</u></p> <p>- Bedding</p> <p>Bedding shall be of clean sifted sand spread and levelled to the maximum prescribed thickness. Paving blocks shall be carefully placed so as not to disturb sand bed</p>			
<p style="text-align: right;">Carried to Collection</p>			
<p>Section No. 3 EXTERNAL WORKS Bill No. 1 COURTYARD</p>			

- **Joints between paving blocks**

Clean dry sifted plaster sand shall be worked and vibrated with a vibrator into joints between paving blocks. This process shall be repeated until all joints are properly filled. Upon completion, paving shall be cleaned by sweeping up all excess sand and washing down paving with a slow running hose

- **Paving blocks**

Paving blocks to be approved best quality paving blocks as prescribed, even in size, shape, colour and equal to samples to be submitted to and approved by the Principal Agent

- **Laying pattern**

The laying pattern of paving blocks shall be as described. with joint widths limited to maximum 5mm wide

- **Perpends**

All perpends are to be accurately kept. Paving work is to be carefully protected against damage and cement or mortar splashes shall be thoroughly cleaned down on completion. No oiling shall be permitted

- **General**

Special care must be taken to preserve arrises and faces of paving blocks during transit and handling. Any paving blocks on the site not in accordance with the approved samples shall be rejected by the Principal Agent, in which case the delivery and removal of thereof shall be solely for the Contractor's account

Relevant SANS 1200 Specifications

The following relevant SANS 1200 Specifications shall be regarded applicable:

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 1
COURTYARD

R

- Pre-cast paving:					
	SANS 1200 AA General (Small Works)				
	SANS 1200 MJ Segmented paving				
All work related to the above-mentioned elements shall be done with materials specified and in according to methods prescribed by the relevant SANS 1200 referred to					
<u>PAVING, ETC</u>					
<u>Compaction of surfaces</u>					
1	Compaction of ground surface under pavings, 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	746		
<u>Prescribed density tests on filling</u>					
2	"Modified AASHTO Density" test	No	11		
<u>Approved soil sterilant type weedkiller applied strictly according to label specifications</u>					
3	Under paving, etc	m2	746		
<u>Precast concrete block walkways</u>					
Paving is to be laid in accordance with SANS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications					
Paving is to be laid to herringbone pattern on and including 20mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)					
<u>60mm Coloured "Concor Bondbrick" paving blocks</u>					
4	Paving to courtyards, etc to falls	m2	746		
5	200mm Edging on and including 200 x 150mm thick unreinforced concrete bedding including excavation, formwork, etc	m	177		
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 1 COURTYARD				R	

<u>Artificial Grass</u>					
6	12.5mm thick artificial turf	m2	393		
<u>Flooring</u>					
7	15mm rubberised mats	m2	553		
<u>"Plascon" road marking paint on paving</u>					
8	Line 100mm wide	m	28		
9	Numeral or letter 550mm high	No	19		
<u>SAND PLAY PIT</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
10	Pits	m3	36		
<u>Extra over all excavtions for carting away</u>					
11	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	36		
12	Sand pit size overall 3960mm wide diameter with and including 510mm high one brick foundation wall on 230 x 600mm wide unreinforced foundation finished with plaster and paint.	No	3		
<u>Coarse river sand filling supplied by the contractor</u>					
13	Play pits, etc	m3	36		
<u>"Jungle Gym World" or similar approved</u>					
14	Senior jungle gym consisting of 2x 1500 x 1500 mm play decks with "Harvey" or similar approved roof tiles, hanging chain, climbing net frame, pole ladder, wooden ramp with rope, 3m polymer slide, tyre tower consisting of 4 tyres and drum	No	6		
15	"HD Saw" Implanted 4 seat see saw fixed to ground with tyres embedded into ground	No	24		
16	"S8" Implanted 4 seat swing fixed to ground	No	6		
Carried to Collection				R	
Section No. 3 EXTERNAL WORKS Bill No. 1 COURTYARD					

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 1
COURTYARD

<u>Compaction of surfaces</u>					
25	Compaction of ground surface under ramps, 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	940		
<u>Prescribed density tests on filling</u>					
26	"Modified AASHTO Density" test	No	40		
<u>15MPa/19mm unreinforced concrete</u>					
27	Aprons laid in panels	m3	94		
28	Extra over concrete aprons for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc.	m	783		
<u>Finishing top surfaces of concrete smooth with a wood trowel</u>					
29	Aprons to falls	m2	940		
<u>Rough formwork to sides</u>					
30	Edges, risers, etc. not exceeding 300mm high or wide	m	783		
<u>RAMPS</u>					
<u>Excavation in earth or compacted platforms not exceeding 2m deep</u>					
31	Trenches	m3	53		
<u>Risk of collapse of excavations</u>					
32	Sides of trench and hole excavations not exceeding 1,5m deep	m2	198		
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>					
33	Backfilling to trenches, holes, etc	m3	33		
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 1 COURTYARD				R	

<u>Compaction of surfaces</u>				
34	Compaction of ground surface under ramps, 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	161	
<u>Prescribed density tests on filling</u>				
35	"Modified AASHTO Density" test	No	25	
<u>Soil poisoning and insecticide</u>				
36	Under ramps, etc including forming and poisoning shallow furrows against foundation walls, etc, filling in furrows and ramming	m2	161	
37	To bottoms and sides of trenches, etc	m2	273	
<u>15MPa/19mm unreinforced concrete</u>				
38	Ramps laid in panels	m3	19	
39	Extra over concrete ramps for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc.	m	250	
<u>Finishing top surfaces of concrete smooth with a wood trowel</u>				
40	Ramps to falls	m2	161	
<u>Brickwork of NFX bricks in class I mortar</u>				
41	One brick walls in foundations	m2	88	
<u>Brickwork reinforcement</u>				
42	150mm Wide reinforcement built in horizontally in foundations	m	259	
Carried to Collection				
Section No. 3 EXTERNAL WORKS Bill No. 1 COURTYARD				R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>EXTERNAL WORK</u>			
	<u>BILL NO.2</u>			
	<u>FENCING</u>			
	<u>THE FOLLOWING IN FENCING</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			

	<u>EXCAVATIONS</u>			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	214	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 214			
2	Trenches	m3	8	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 8			
	Carried to Collection			R
	Section No. 3			
	EXTERNAL WORKS			
	Bill No. 2			
	FENCING AND GATES			

<u>Extra over trench and hole excavations in earth for excavation in</u>								
3	Soft rock				m3	64		
	1 : 0	2 : 0	4 : 0	7 : 0				
	A : 0	B : 0	C : 0	D : 0				
	E : 0	F : 0	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
	M : 0	N : 0	O : 0	W : 0				
	X : 64							
4	Hard rock				m3	77		
	1 : 0	2 : 0	4 : 0	7 : 0				
	A : 0	B : 0	C : 0	D : 0				
	E : 0	F : 0	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
	M : 0	N : 0	O : 0	W : 0				
	X : 77							
<u>Extra over all excavations for carting away</u>								
5	Surplus material from excavations on site to a dumping site to be located by the contractor				m3	217		
	1 : 0	2 : 0	4 : 0	7 : 0				
	A : 0	B : 0	C : 0	D : 0				
	E : 0	F : 0	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
	M : 0	N : 0	O : 0	W : 0				
	X : 217							
<u>Risk of collapse of excavations</u>								
6	Sides of trench and hole excavations not exceeding 1,5m deep				m2	1,894		
	1 : 0	2 : 0	4 : 0	7 : 0				
	A : 0	B : 0	C : 0	D : 0				
	E : 0	F : 0	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
	M : 0	N : 0	O : 0	W : 0				
	X : 1894							
<u>Keeping excavations free of water</u>								
7	Keeping excavations free of water					Item		
Carried to Collection							R	
Section No. 3 EXTERNAL WORKS Bill No. 2 FENCING AND GATES								

FILLING

CONCRETE, FORMWORK AND REINFORCEMENT

25MPa/19mm concrete

R

R

Carried to Collection

-293-

15	One brick wall	m2	23
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 23		
	<u>BRICKWORK SUNDRIES</u>		
	<u>Joint forming material in movement joints</u>		
16	10mm Bitumen impregnated fibre board built vertically between brick skins	m2	11
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 11		
	<u>Brickwork reinforcement</u>		
17	150mm Wide reinforcement built in horizontally	m	88
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 88		
	<u>Weep, holes, etc</u>		
18	Leave or form brick size opening as weep holes	No	34
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 34		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 2
FENCING AND GATES

R

<u>"Concor" products or similar</u>				
19	Pyramid pier cap	No	16	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 16			
<u>FACE BRICKWORK</u>				
<u>"Corobrik Imperial FBX" or similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints</u>				
20	Extra over brickwork for face brickwork	m2	12	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 12			
21	Extra over brickwork for face brickwork in foundations, including wire ties	m2	46	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 46			
<u>JOINT SEALANTS ETC</u>				
Carried to Collection				
Section No. 3 EXTERNAL WORKS Bill No. 2 FENCING AND GATES				

	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u>		
22	10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary	m	11
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 11		
	<u>Cement plaster on brickwork</u>		
23	On walls	m2	16
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 16		
	<u>Plascon Polvin Super Acrylic to interior new cement plaster (NW 205).Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u>		
24	On walls	m2	16
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 16		

FENCING

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 2
FENCING AND GATES

Steel palisade as per attached drawings complete, joined to brick columns and brickwalls, the fence painted on both sides (colour to architects)

25	Steel palisade fence 1800mm high with pales formed of 40 x 40 x 2.0mm angle iron paling 1.8m high with devil fork effect on top and bottom with the dove tail fixed to 2,4m high posts size 76 x 76 x 2mm square tubing with closing pyramid caps on top posts at 3m centres min, with 40 x 40 x 2mm angle iron bearers placed 300mm from top paling and 300mm from bottom paling welded flash with the back of the posts as per manufacturers instructions fixed in position as indicated on the drawings	m	4,155		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4155				

GATES, ETC.

26	Sliding palisade gate 5000 x 1800mm high formed of 76 x 38 x 2mm rectangular tubing frame, with 40 x 40 x 2mm welded angle iron paling with 40 x 40 x 5mm angle iron fixed into base, with two 80mm roller coaster wheels fitted with ball bearing, track formed of 12mm steel rod welded to the iron angle with gate posts formed of 75 x 75 x 2mm steel square tubing 2400mm overall length fixed in position with and including a mild steel locking system consisting of mild steel plate and mild steel bolt lock including padlock with keys	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 2
FENCING AND GATES

27 Sliding palisade gate 3000 x 1800mm high formed of 76 x 38 x 2mm rectangular tubing frame, with 40 x 40 x 2mm welded angle iron paling with 40 x 40 x 5mm angle iron fixed into base, with two 80mm roller coaster wheels fitted with ball bearing, track formed of 12mm steel rod welded to the iron angle with gate posts formed of 75 x 75 x 2mm steel square tubing 2400mm overall length fixed in position with and including a mild steel locking system consisting of mild steel plate and mild steel bolt lock including padlock with keys

No

1

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 1

28 Pedestrian palisade gate size 1500 x 1800mm high of 40 x 40 x 2mm welded angle iron paling with 50 x 25 x 1.6mm rectangular tubing frame with 75 x 75 x 2mm mild steel square tubing gate posts of 2400mm overall with and including a mild steel locking system consisting of mild steel plate and mild steel bolt lock including padlock with keys and gate handles fixed to rectangular 1mm plate with swivel castors on opening sections and barrel bolts into paving

No

1

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 1

PAINTWORK ETC TO NEW WORK

ON METAL

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 2
FENCING AND GATES

Plascon Super Universal Enamel to exterior new galvanised(NW 620).Surface to be clean and dry. Apply Plascon Galvanised Iron Cleaner (GIC 1) to all bare galvanised areas. Rinse off with tap water using bristle brush or Scotch Brite pads to remove all surface contaminants, until surface is water-free. Prime with one coat of Galvanised Iron Primer (GIP 1) and finish with two coats of Universal Enamel (NY 1/G)

29	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	14,992		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 14992				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 2
FENCING AND GATES

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>EXTERNAL WORK</u>			
	<u>BILL NO.3</u>			
	<u>SITE WORKS</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>EARTHWORKS</u>			
1	Clear site of all rubbish, debris,vegetation,etc	m2	20,000	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 20000			
2	Stripping 150mm layer of top soil and cart to spoil heap on site	m2	14,000	
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 14000			
	Carried to Collection			R
	Section No. 3 EXTERNAL WORKS Bill No. 3 SITE WORKS (PROVISIONAL)			

REMOVAL OF TREES ETC

3	Take out and remove trees not exceeding 500m girth and approximately 2,5m high	No	7
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 7		

4	Take out and remove tree with trunk exceeding 500mm and not exceeding 1000mm girth measured 1m above ground level including excavating and removing roots and fill hole with clean dry earth filling, watered and rammed	No	11
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 11		

BULK EXCAVATION, FILLING, ETC

Open face excavation in earth over sloping site

5	Open face excavatons	m3	5,850
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 5850		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 3
SITE WORKS (PROVISIONAL)

R

<u>Extra over bulk excavation in earth for excavation in</u>							
6	Soft rock (intermediate excavation)	m3	1,008				
	1 : 0 2 : 0 4 : 0 7 : 0						
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 0						
	I : 0 J : 0 K : 0 L : 0						
	M : 0 N : 0 O : 0 W : 0						
	X : 1008						
7	Hard rock (hard excavation)	m3	1,008				
	1 : 0 2 : 0 4 : 0 7 : 0						
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 0						
	I : 0 J : 0 K : 0 L : 0						
	M : 0 N : 0 O : 0 W : 0						
	X : 1008						
<u>Extra over all excavations for carting away</u>							
8	Surplus material from excavations to stock piles on site not exceeding 300m	m3	5,850				
	1 : 0 2 : 0 4 : 0 7 : 0						
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 0						
	I : 0 J : 0 K : 0 L : 0						
	M : 0 N : 0 O : 0 W : 0						
	X : 5850						
<u>Earth filling supplied by the contractor in platforms</u>							
9	In platforms of G5 material in accordance with SABS 1200 DM compacted to 90% Mod AASHTO density	m3	5,850				
	1 : 0 2 : 0 4 : 0 7 : 0						
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 0						
	I : 0 J : 0 K : 0 L : 0						
	M : 0 N : 0 O : 0 W : 0						
	X : 5850						
Carried to Collection							
Section No. 3 EXTERNAL WORKS Bill No. 3 SITE WORKS (PROVISIONAL)						R	

Prescribed density tests on filling

10	Natural California Bearing Ration "test"	No	10		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 10				
11	"Modified AASHTO Density" test	No	40		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 40				
12	Atterberg limits test in accordance with method A2 to A4 of TMH1	No	10		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 10				
13	UCS test in accordance with method A14 of TMH 1	No	10		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 10				

GRASSING

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 3
SITE WORKS (PROVISIONAL)

	<u>Ground preparation</u>				
14	Preparation of areas to be planted	m2	6,720		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 6720				
	<u>Garden soil filling supplied by the contractor</u>				
15	Over site	m3	538		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 538				
	<u>Grassing of sods approximately 500 x 500 x 50mm thick</u>				
16	"Kikuyu" grass over site	m2	6,720		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 6720				
	<u>Fertilizing</u>				
17	Fertilizing grassed areas with 5:1:5 mixture at a rate of 1kg/5m, after completion of planting	m2	6,720		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 6720				
	Carried to Collection				
	Section No. 3				
	EXTERNAL WORKS				
	Bill No. 3				
	SITE WORKS (PROVISIONAL)				

R

	<u>Maintenance</u>				
18	Maintenance of grassed area for a period of 3 months (total area approximately 1000m2) including regularly weeding and irrigating as necessary		Item		
	<u>COMBI COURT CONSTRUCTION</u>				
	<u>Excavation for</u>				
19	Excavate in all materials and use for embankment or backfill or dispose, as ordered	m3	1,600		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1600				
	<u>Compaction of surfaces</u>				
20	Rip and compact to 90% MOD AASHTO 150mm thick	m3	240		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 240				
21	Import and compact to 93% MOD AASHTO specified gravel in layers not to exceed 150mm	m3	240		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 240				
	Carried to Collection			R	
	Section No. 3				
	EXTERNAL WORKS				
	Bill No. 3				
	SITE WORKS (PROVISIONAL)				

	<u>Extra over for</u>				
22	Stabilisation of gravel	m3	240		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 240				
	<u>Stabilizer</u>				
23	Cement stabilising agent	t	12.50		
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 0.00 B : 0.00 C : 0.00 D : 0.00				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 12.50				
	<u>Surfacing</u>				
24	Provide the sum of R 250 000-00 for surfacing by Specialist Sub-Contractor	Item		250,000.00	
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 0.00 B : 0.00 C : 0.00 D : 0.00				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 1.00				
25	Attendance and Profit for surfacing	Item			
	<u>Paintwork</u>				
26	Provide the sum of R 40 000-00 for painting by Specialist Contractor	Item		20,000.00	
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 0.00 B : 0.00 C : 0.00 D : 0.00				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 1.00				
	Carried to Collection				
	Section No. 3			R	
	EXTERNAL WORKS				
	Bill No. 3				
	SITE WORKS (PROVISIONAL)				

27	Attendance and Profit for paintwork	Item	
	<u>Fencing</u>		
28	Provide the sum of R 80 000-00 for fencing by Specialist Contractor	Item	80,000.00
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00 A : 0.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 F : 0.00 G : 0.00 H : 0.00 I : 0.00 J : 0.00 K : 0.00 L : 0.00 M : 0.00 N : 0.00 O : 0.00 W : 0.00 X : 1.00		
29	Attendance and Profit for fencing	Item	
	<u>SOCCER FIELD CONSTRUCTION</u>		
	<u>PREPARATION AND PLANTING</u>		
	<u>1.7) Setting out & marking of soccer field lines</u>		
	.1) The dimensions of the pitch will be 90m x 45 m, and the width of the lines will be 12cm maximum. The dimensions of the total grass area shall be 90 x 45m, with line width of 12 cm max, marked twice in opposite directions. The line marking schedule should observe, the Youth programme Fan Motivator or other marketing-related activities rehearsals, bearing in mind, a one-hour drying period after line marking. Line marking with chalk is not considered an option, unless weather conditions do not allow line marking with any other product. Final cut therefore needs to be finished 7 hours before marking.		
	<u>1.6) Supply and install goal posts</u>		
	.1) The goals shall be placed on the center of each goal-line and shall consist of two upright posts, equidistant from the corner-flags as per PSL standards and international dimensions, joined by a horizontal cross-bar as per detail drawing. The width and depth of the cross-bars shall not exceed 5 inches (12 cm). The goal-posts and the cross- bars shall have the same width.		
	Carried to Collection		
	Section No. 3 EXTERNAL WORKS Bill No. 3 SITE WORKS (PROVISIONAL)	R	

.2) Nets may be attached to the posts, cross-bars and ground behind the goals. They should be appropriately supported and be so placed as to allow the goalkeeper ample room. Goal nets. White or Blue High Density Polyethylene, UV stabilized against radiation consisting of a 100mm mesh size with a 3.5mm cord size. The entire perimeter of the netting will have a 6mm surround cord stitched to the perimeter.

1.5) Weed Control

.1) Weed control is to be applied (where and when desired necessary) to prevent competition to establishing or newly established turf grasses. Broad leaf weeds are to be controlled with appropriate herbicides as the need should arise. Grass weeds should preferably be hand-weeded. Pre-emergent herbicides can be considered for use, but are not recommended under normal circumstances for the growing in period

Setting out

30 Setting out of works and levels

Item

Soil Tests

31 Soil fertility test, analyzed by a reputable laboratory should be conducted, to determine and correct any fertilizer deficiencies or pH corrections needed.

No

10

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0
X : 10			

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 3
SITE WORKS (PROVISIONAL)

Soil Improvement

32	Sieve and install in layers of 150mm of sub base fill using on site stockpiled gravel/sand below final growing medium to 300mm thickness	m3	700		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 700				

33	Extra over for supply and mixing of well rotted compost to topsoil above 4% per volume	m3	700		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 700				

Building of Pitch

34	Import of in situ top soil above and place in 100mm layers, including laser levelling to specified levels, slopes and profiles as per Engineer plan to ensure that all levels are within 5mm specified levels in 150mm layers and compacted to 88% mod AASHTO	m3	700		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 700				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 3
SITE WORKS (PROVISIONAL)

Preparation

35	Tillage of the growing medium to be done to a depth of 150mm, incorporating fertilizer or other soil ammendments in accordance with the laboratory recommendations. Avoid over-tilling, or the tilling wet soil, which can damage soil structure. Rake the area to the finish garde just prior to seeding. Apply a "starter fertilizer" (16-22-8) at 210g/m2 to enhance seed germination and development	m2	4,050		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4050				

Seeding

36	Seeding of Kikuyu 'WHITTET' (Pennistetum clandestinum), a less aggressive and sole variety of Kikuyu which is available in seed for the establishment of a permanent base grass only for inland pitches at 25Kg/Ha to specification below.	m2	4,050		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4050				
37	Extra over to supply and lay instant Kikuyi WHITTET sod (Pennisetum clandestinum), is recommended as alternative for the establishment of a permanent base grass to specification below	m2	4,050		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4050				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 3
SITE WORKS (PROVISIONAL)

38	Scarifying and over seed with Tri-Rye mix and Kentucky Blue cool season grasses at 40Kg/hathe winter following the establishment of the pitch turf.	m2	4,050		
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>D : 0</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div>				
	X : 4050				
39	Maintenance of pitch up to Practical Completion to specification			SUM	
	<u>Post Seeding Fertilization</u>				
40	Apply 50g of nitrogen (LAN) per 1m2 at TWO weeks intervals after germination			SUM	
41	Fertilizing after first mowing with 150g 2:3:4 approximately six weeks intervals after germination.			SUM	
	<u>Weed Control</u>				
42	Weed control is to be applied (where and when desired necessary) to prevent competition to establishing or newly established turf grasses			SUM	
	<u>Supply and install goal posts</u>				
43	Manufacture & install mild steel goal posts and cross bars as specified treated and painted with one rust resistant primer,one coat of undercoat and 3 coats of enamel top coats in agreed white on concrete bases to engineers specification by others	No	2		
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>D : 0</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div>				
	X : 2				
Carried to Collection				R	
Section No. 3					
EXTERNAL WORKS					
Bill No. 3					
SITE WORKS (PROVISIONAL)					

44	<p>Supply and install goal nets in white or blue High Density Polyethylene, UV stabilized against radiation consisting of a 100mm mesh size with 3.5mm cord size with perimeter cord in 6mm nylon stitched and secured to goal posts</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 2</p> <p><u>Setting out & marking of soccer field lines</u></p>	No	2		
45	<p>Prepare and install line marking of 12cm width to conform to current PSL Laws to the satisfaction of the Principal Agent</p>			SUM	
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 EXTERNAL WORKS Bill No. 3 SITE WORKS (PROVISIONAL)</p>			R	

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>EXTERNAL WORK</u></p> <p><u>BILL NO.4</u></p> <p><u>STORMWATER DRAINAGE, SOIL DRAINAGE AND WATER SUPPLY (PROVISIONAL)</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>STORMWATER DRAINAGE</u></p> <p><u>CONCRETE</u></p> <p><u>Mass concrete wih a coarse aggregate of 9mm and a minimum compressive strength of 15MPa at 28 days (LI)</u></p>			
1	<p>V- shaped channel 900mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar,laid to falls in panels not exceeding 1,8m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork</p> <div style="display: flex; justify-content: space-between;"> 1 : 0 2 : 0 4 : 0 7 : 0 </div> <div style="display: flex; justify-content: space-between;"> A : 0 B : 0 C : 0 D : 0 </div> <div style="display: flex; justify-content: space-between;"> E : 0 F : 0 G : 0 H : 0 </div> <div style="display: flex; justify-content: space-between;"> I : 0 J : 0 K : 0 L : 0 </div> <div style="display: flex; justify-content: space-between;"> M : 0 N : 0 O : 0 W : 0 </div> <p>X : 1788</p>	m	1,788	
	Carried to Collection		R	
	Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA			

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

2	V-drain, 1000mm wide x 250mm deep of 120mm thick dished concrete stormwater channels laid in panels to falls formed of 20MPa unreinforced concrete including formwork, finishing smooth with a steel trowel, etc	m	202		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 202				
3	Extra for fair open end	No	39		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 39				
4	Extra for fair stopped end	No	35		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 35				
5	Extra for angle intersection	No	26		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 26				
6	Extra for T-intersection	No	18		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 18				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

7	<p>Triangular shaped concrete spill basin size 1,1m at head,2.4m at base end and 1,192m along the sides, formed of 200mm thick concrete base with concrete upstand size 200 x 200mm high along two sides and 200 x 200mm footing along base end including all excavations, formwork, and backfilling, the top of the base laid with eleven clay bricks protruding 55mm above the surface of the concrete and loose stones of 100 to 150mm diameter loose at the base of the spill basin for a width of 500mm</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 33</p> <p><u>Movement joints</u></p>	No	33		
8	<p>Movement joint not exceeding 300mm high formed of 12mm bitumen impregnated softboard placed vertical in position between concrete stormwater channel and brick walls or concrete aprons,etc including raking out top section 10mm deep and filling with bituminous compound</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 115</p> <p><u>STORMWATER DRAINAGE</u></p>	m	115		
9	<p>Excavation not exceeding 2m deep for drain trenches</p> <p>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 132</p>	m3	132		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

10	Backfilling to drain trenches compacted to 93% Mod AASHTO density (LI)	m3	53
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 53		
11	Selected imported sand filling in bedding under and filling around pipes (LI)	m3	18
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 18		
12	19mm Crushed stone bedding under pipes (LI)	m3	35
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 35		
13	Unreinforced concrete bedding under pipes	m3	5
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 5		
Carried to Collection			R
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA			

Class 100D concrete pipes

14	450mm pipes laid in trenches (trenches elsewhere)	m	411		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 411				

Precast concrete circular inspection chambers

15	Inspection chamber 610mm diameter and not exceeding 750mm deep internally	No	7		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 7				

SEWER RETICULATION

Sewer line

16	Excavation not exceeding 2m deep for drain trenches	m3	32		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 32				
17	Backfilling to sewer trenches compacted to 93% Mod AASHTO density	m3	28		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 28				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

18	<p>Selected imported sand filling in bedding under and filling around pipes</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 6</p> <p><u>uPVC lass 34 pipes</u></p>	m3	6		
19	<p>110 Diameter Pipes</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 410</p>	m	410		
20	<p>160mm Diameter Pipes</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 807</p>	m	807		
21	<p>Extra over excavations in earth for pipe trenches, etc for excavations in soft rock</p> <p>1 : 0 2 : 0 4 : 0 7 : 0</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0 H : 0</p> <p>I : 0 J : 0 K : 0 L : 0</p> <p>M : 0 N : 0 O : 0 W : 0</p> <p>X : 60</p>	m3	60		
Carried to Collection					
<p>Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA</p>					R

22	Extra over excavations in earth for pipe trenches, etc for excavations in hard rock	m3	80		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 80				
	<u>Extra over uPVC pipes for fittings</u>				
23	160mm Bend	No	34		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 34				
24	110mm Bend	No	56		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 56				
	<u>Sundries</u>				
25	15MPa/19mm mass concrete encasing around 100mm horizontal drain pipe including all necessary formwork	m	90		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 90				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

26	15MPa/19mm mass concrete encasing around 100mm vertical or raking drain pipe to cleaning eye including all necessary formwork	m	90
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 90		
27	15MPa/19mm mass concrete in precast I.E marker block set flush with the ground or paving	No	48
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 48		

THE FOLLOWING IN PRE-FABRICATED MANHOLES

Pre-fabricated concrete manholes and shall construct according to the Manufacturer's instruction.All manholes to be out of dolomitic aggregates

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

Excavate in earth for and including circular type precast concrete manhole formed of 1,330m diameter x 100mm thick 20Mpa/19mm mass concrete bottom with manhole shaft formed of 1,02m diameter (internal) precast concrete rings with joints sealed with non hardening waterproof such as DENSO sealing with and including precast concrete cover slab 125mm thick and precast concrete spacer slab with opening for and including heavy duty road type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete benching in bottom floated smooth with falls to and including 617 mesh reinforcement and 150mm vitrified clay channels and finished on all exposed surface with 25mm thick granolithic with angles rounded including all necessary step irons, etc

28	Manhole exceeding 1m and not exceeding 2m deep	No	35
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 35		

Sundries

29	Hole through side of precast concrete manhole for pipe exceeding 100mm and not exceeding 200mm diameter and make good	No	35
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 35		

WATER SUPPLY

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

<u>Water connection</u>					
30	Excavate not exceeding 2m deep for water supply trenches	m3	938		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 938				
31	Backfilling to sewer trenches compacted to 93% Mod AASHTO density	m3	659		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 659				
32	Selected imported sand filling in bedding under and filling around pipes	m3	279		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 279				
<u>Rainwater reticulation pipes</u>					
33	32mm Diameter HDPE pipe	m	1,508		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1508				
Carried to Collection					
Section No. 3					
EXTERNAL WORKS					
Bill No. 4					
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					
				R	

Extra over HDPE for fittings Rain water reticulation

34	32mm Bend	No	57		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 57				

35	32mm Tee	No	26		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 26				

Potable water reticulation HDPE pipes

36	25mm Diameter HDPE pipe	m	156		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 156				

37	32mm Diameter HDPE pipe	m	98		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 98				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

38	40mm Diamter HDPE pipe	m	162		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 162				
39	50mm Diameter HDPE pipe	m	122		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 122				
40	63mm Diameter HDPE pipe	m	74		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 74				
	<u>HDPE 125mm Class PE 100 pipes</u>				
41	125mm pipe and excavation exceeding 1m and not exceeding 2m deep	m	804		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 804				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

<u>Extra over HDPE for fittings potable water reticulation pipe</u>								
42	25mm Bend			No	36			
	1 : 0	2 : 0	4 : 0					
	A : 0	B : 0	C : 0					
	E : 0	F : 0	G : 0					
	I : 0	J : 0	K : 0					
	M : 0	N : 0	O : 0					
	X : 36							
43	32mm Bend			No	11			
	1 : 0	2 : 0	4 : 0					
	A : 0	B : 0	C : 0					
	E : 0	F : 0	G : 0					
	I : 0	J : 0	K : 0					
	M : 0	N : 0	O : 0					
	X : 11							
44	40mm Bend			No	13			
	1 : 0	2 : 0	4 : 0					
	A : 0	B : 0	C : 0					
	E : 0	F : 0	G : 0					
	I : 0	J : 0	K : 0					
	M : 0	N : 0	O : 0					
	X : 13							
45	50mm Bend			No	25			
	1 : 0	2 : 0	4 : 0					
	A : 0	B : 0	C : 0					
	E : 0	F : 0	G : 0					
	I : 0	J : 0	K : 0					
	M : 0	N : 0	O : 0					
	X : 25							
46	63mm Bend			No	16			
	1 : 0	2 : 0	4 : 0					
	A : 0	B : 0	C : 0					
	E : 0	F : 0	G : 0					
	I : 0	J : 0	K : 0					
	M : 0	N : 0	O : 0					
	X : 16							
Carried to Collection								
Section No. 3								
EXTERNAL WORKS								
Bill No. 4								
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA								

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

47	25mm Tee	No	12		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 12				
48	32mm Tee	No	13		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 13				
49	40mm Tee	No	32		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 32				
50	50mm Tee	No	24		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 24				
51	63mm Tee	No	34		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 34				
Carried to Collection					R
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

<u>Valves, etc including joints to pipes and/ or fittings</u>							
52	25mm non-return valve			No	14		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 14						
53	32mm non-return valve			No	11		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 11						
54	40mm non-return valve			No	11		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 11						
55	50mm non-return valve			No	12		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 12						
56	63mm non-return valve			No	12		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 12						
Carried to Collection							
Section No. 3							
EXTERNAL WORKS							
Bill No. 4							
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA							

57	25mm brass fullway wheel valve	No	16	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 16			
58	63mm brass fullway wheel valve	No	14	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 14			
	<u>Extra over HDPE for fittings</u>			
59	125mm Bend	No	21	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 21			
	<u>SUNDRIES</u>			
60	Excavate in earth for and build stop cock box size 225 x 225 x 600mm deep internally with half brick sides in cement mortar with 225 x 225mm regulation pattern cast iron hinged box Type 11B set in and including 15Mpa/19mm mass concrete surround size 75mm wide x 100mm deep all round (LI)	No	18	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 18			

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

61	Excavate in earth not exceeding 1m deep for and build circular type precast concrete valve and meter chamber formed of 1,05m diameter (internal) precast concrete rings with and including precast concrete cover slab 125mm thick and precast concrete spacer slab with opening for and pavement type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete filling in bottom floated smooth with falls and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary step irons, etc (LI)	No	21
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 21		
62	Extra over excavations in earth for pipe trenches, etc for excavations in hard rock	m3	33
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 33		
63	Extra over excavation in earth for pipe trenches, etc for excavation in soft rock	m3	31
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 31		

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

64	15Mpa/19mm mass concrete in thrust blocks around fittings including necessary additional excavatons,formwork, etc	m3	27
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>D : 0</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div> <div>X : 27</div>		
65	Drinking fountain comprising 25 diam HDPE high level pipe with all the necessary fittings cast into concrete with and including Cobra watertech CP demand taps (code KM2-20215) or similar approved with 110mm uPVC pipe with steeldrain grate epoxied to concrete lip and 25D precast stormwater pipe of outer diameter of 360 degree to connect to to the existings st to shaped to form a basin tiled with mosaic tiles with all visible areas to receive 10 x 10mm mosaic tiles approved by the Architect with 20MPa/38mm mass concrete footing including necessary excavation, 100mm thick 20MPa/38mm mass concrete slab 2,70m long x 2,70m wide graded to falls with wood float finish with 40mm waste pipe, finished with 300 x 300mm black slate with tile chip design as per Architect design and the top wall finished with 25 x 25mm white mosaic tiles all around	No	12
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>D : 0</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div> <div>X : 12</div>		

WATER SUPPLIES TO FIRE APPLIANCES

FIREWATER RETICULATION

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

Class 12 black HDPE high density polyethylene pipes with and including "Plasson" compression fittings

66	25mm Pipes laid in and including trenches not exceeding 1m deep	m	127		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 127				
67	32mm Pipes laid in and including trenches not exceeding 1m deep	m	214		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 214				
68	100mm Pipes laid in and including trenches not exceeding 1m deep	m	791		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 791				
	<u>Extra over class 12 uPVC pressure pipes for fittings with solvent welded joints</u>				
69	100mm Junction	No	24		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 24				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

70	100mm Bend	No	38		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 38				
71	100 x 25 x 100mm Reducing Junction	No	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 8				
72	100 x 32 x 100mm Reducing Junction	No	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 8				
73	25mm Bend	No	22		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 22				
74	32mm Bend	No	14		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 14				
Carried to Collection					R
Section No. 3					
EXTERNAL WORKS					
Bill No. 4					
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

75	25mm Junction	No	12
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 12		
76	100 x 32mm Reducer	No	17
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 17		
77	100 x 25mm Reducer	No	14
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 14		
78	100 x 32mm Reducer	No	18
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 18		
79	100 x 25mm Reducer	No	13
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 13		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

<u>Galvanised steel pipes</u>					
80	25mm Pipes	m	321		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 321				
81	32mm Pipes	m	107		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 107				
82	100mm Pipes	m	168		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 168				
<u>Extra over galvanised steel pipes for steel fittings</u>					
83	25mm Fittings	No	248		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 248				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R	

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

84	32mm Fittings	No	104
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 104		
85	100mm Bush	No	32
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 32		
86	100 x 25mm Reducer	No	14
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 14		
87	100mm Bend	No	43
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 43		
88	100mm Junction	No	22
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 22		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

Class 0 copper pipes with capillary couplings

89	25mm Pipes	m	108		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 108				
90	32mm Pipes	m	39		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 39				
91	50mm Pipes	m	47		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 47				
92	100mm Pipes	m	143		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 143				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

Extra over class 0 copper pipes for capillary fittings

93	25mm Fittings	No	37		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 37				
94	50mm Union	No	23		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 23				
95	32mm Fittings	No	44		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 44				
96	50mm Elbow	No	22		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 22				
97	50mm Reducing bush	No	22		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 22				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

98	5 x 25mm Reducer	No	11
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 11		
99	50 x 32mm Reducer	No	12
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 12		
100	100mm Bend	No	27
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 27		
101	100mm Union	No	15
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 15		
102	100mm Junction	No	19
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 19		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

	<u>"Cobra Watertech"</u>				
107	Cobra Watertech 100mm BSP parallel threaded F x F Cobra cast brass light duty fullway gate valve with non- blowout, non rising spindle, non-asbestos gland packing, guided wedge and red pressed steel hand wheel (Code: 1002-125-100mm).	No	17		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 17				
	<u>HYDRANTS</u>				
108	80 x 65mm Brass right angle hydrant valve with cap and chain	No	17		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 17				
	<u>SUNDRIES</u>				
109	Unreinforced concrete encasing to 100mm horizontal pipe	m	22		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 22				
110	Unreinforced concrete encasing to 100mm vertical bend	No	8		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 8				
	Carried to Collection				
	Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R

111	Unreinforced concrete encasing to 100mm vertical junction <div>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 3</div>	No	3	
112	Cutting into existing 160mm drain pipe for and forming junction with 50mm pipe <div>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 1</div>	No	1	
113	Cutting into existing 160mm drain pipe for and forming junction with 75mm pipe <div>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 1</div>	No	1	
114	Cutting into existing 75mm uPVC water pipe for and forming junction with 50mm uPVC pipe <div>1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 1</div>	No	1	
Carried to Collection				
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				

R	

115 Cutting into existing 75mm uPVC water pipe for and forming junction with 100mm uPVC incl. all excavations, backfilling, cart away etc.

No

1

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 1

AS-BUILT DRAWINGS

116 Allow for an updated set of as-built drawings to be handed to the architect at completion of the contract

Item

1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00
A : 0.00 B : 0.00 C : 0.00 D : 0.00
E : 0.00 F : 0.00 G : 0.00 H : 0.00
I : 0.00 J : 0.00 K : 0.00 L : 0.00
M : 0.00 N : 0.00 O : 0.00 W : 0.00
X : 1.00

SEPTIC TANK WITH MANHOLE AND SOAKAWAY

The following in septic tank:

Excavation in earth exceeding 2m and not exceeding 4m deep

117 Septic tanks

m3

137

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 0
X : 137

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

[illegible]

	<u>Earth filling obtained from the excavations and/or stock piles on site compacted to 93% Modified AASHTO density</u>					
122	Backfilling to septic tanks, etc				m3	20
	1 : 0	2 : 0	4 : 0	7 : 0		
	A : 0	B : 0	C : 0	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
	M : 0	N : 0	O : 0	W : 0		
	X : 20					
	<u>Compaction of surfaces</u>					
123	Compaction of ground surface under surface beds 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	44
	1 : 0	2 : 0	4 : 0	7 : 0		
	A : 0	B : 0	C : 0	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
	M : 0	N : 0	O : 0	W : 0		
	X : 44					
	<u>15MPa/19mm Unreinforced concrete cast against excavated surfaces</u>					
124	Blinding layer under surface beds				m3	2
	1 : 0	2 : 0	4 : 0	7 : 0		
	A : 0	B : 0	C : 0	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
	M : 0	N : 0	O : 0	W : 0		
	X : 2					

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

	<u>30MPa/19mm Reinforced concrete</u>				
125	Surface beds	m3	10		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 10				
126	Slabs	m3	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 8				
127	Inverted beams	m3	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1				
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
128	Surface beds	m2	44		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 44				
	Carried to Collection				
	Section No. 3				
	EXTERNAL WORKS				
	Bill No. 4				
	STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				

R

129	Slabs	m2	32	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 32			
	<u>Rough formwork to sides</u>			
130	Edges of slabs not exceeding 300mm high or wide	m	36	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 36			
131	Sides of inverted beams not exceeding 300mm high or wide	m	84	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 84			
	<u>Rough formwork to soffits</u>			
132	Slabs	m2	32	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 32			

	<u>Rough formwork to form</u>			
133	650 x 500mm Opening through 250mm thick slab 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 4	No	4	
	<u>Mild steel reinforcement to structural concrete work</u>			
134	8mm Diameter bars 1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00 A : 0.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 F : 0.00 G : 0.00 H : 0.00 I : 0.00 J : 0.00 K : 0.00 L : 0.00 M : 0.00 N : 0.00 O : 0.00 W : 0.00 X : 0.68	t	0.68	
	<u>High tensile steel reinforcement to structural concrete work</u>			
135	12mm Diameter bars 1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00 A : 0.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 F : 0.00 G : 0.00 H : 0.00 I : 0.00 J : 0.00 K : 0.00 L : 0.00 M : 0.00 N : 0.00 O : 0.00 W : 0.00 X : 1.24	t	1.24	
	<u>Brickwork of NFX bricks in class I mortar</u>			
136	One brick walls 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 26	m2	26	

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

137	One-and-a-half brick walls	m2	72		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 72				
	<u>Mortar fillets</u>				
138	Splayed mortar triangular fillet 230mm wide at base x 480mm high x 230mm long	No	4		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4				
	<u>Openings in brickwork</u>				
139	150 x 150mm High flue in one brick wall including rendering smooth in mortar	m	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
	<u>Brickwork reinforcement</u>				
140	75mm Wide reinforcement built in horizontally	m	428		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 428				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R	

141	150mm Wide reinforcement built in horizontally 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 532 <u>Two coats "Silca Top Seal 107" cementitious waterproof coating</u>	m	532
142	On brick walls 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 102 <u>Cement plaster on brickwork</u>	m2	102
143	On walls 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 102 <u>UPVC drain pipes (SANS 791) normal duty with socket and rubber ring type including all excavations, backfilling, Class C bedding, compaction, etc in accordance with SANS 1200</u>	m2	102
144	110mm Pipes fixed to walls 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 4	m	4

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

145	110mm Pipes laid in and including trenches not exceeding 1m deep	m	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 8				
	<u>Extra over uPVC pipes for fittings</u>				
146	110mm Junction	No	4		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4				
	<u>Gratings, covers, etc</u>				
147	600 x 600mm Cast iron double seal manhole cover and frame (heavy duty 99kg) SANS 558-1965 Type 8B including 50 x 80mm concrete surround	No	4		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4				
	<u>The following in manhole to septic tank:</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
148	Manholes	m3	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

	<u>Risk of collapse of excavations</u>				
149	Sides of excavations for manholes not exceeding 1,5m deep 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 8	m2	8		
	<u>15MPa/19mm Unreinforced concrete cast against excavated surfaces</u>				
150	Blinding layer under surface beds 1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0 A : 0.0 B : 0.0 C : 0.0 D : 0.0 E : 0.0 F : 0.0 G : 0.0 H : 0.0 I : 0.0 J : 0.0 K : 0.0 L : 0.0 M : 0.0 N : 0.0 O : 0.0 W : 0.0 X : 0.2	m3	0.2		
	<u>30MPa/19mm Reinforced concrete</u>				
151	Surface beds 1 : 0.0 2 : 0.0 4 : 0.0 7 : 0.0 A : 0.0 B : 0.0 C : 0.0 D : 0.0 E : 0.0 F : 0.0 G : 0.0 H : 0.0 I : 0.0 J : 0.0 K : 0.0 L : 0.0 M : 0.0 N : 0.0 O : 0.0 W : 0.0 X : 0.4	m3	0.4		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
152	Surface beds 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 2	m2	2		
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R	

<u>Mild steel reinforcement to structural concrete work</u>				
153	8mm Diameter bars	t	0.02	
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00			
	A : 0.00 B : 0.00 C : 0.00 D : 0.00			
	E : 0.00 F : 0.00 G : 0.00 H : 0.00			
	I : 0.00 J : 0.00 K : 0.00 L : 0.00			
	M : 0.00 N : 0.00 O : 0.00 W : 0.00			
	X : 0.02			
<u>High tensile steel reinforcement to structural concrete work</u>				
154	12mm Diameter bars	t	0.04	
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00			
	A : 0.00 B : 0.00 C : 0.00 D : 0.00			
	E : 0.00 F : 0.00 G : 0.00 H : 0.00			
	I : 0.00 J : 0.00 K : 0.00 L : 0.00			
	M : 0.00 N : 0.00 O : 0.00 W : 0.00			
	X : 0.04			
<u>Brickwork of NFX bricks in class I mortar</u>				
155	One brick walls	m2	6	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 6			
<u>Two coats "Silca Top Seal 107" cementitious waterproof coating</u>				
156	On brick walls	m2	6	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 6			

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

<u>Cement plaster on brickwork</u>					
157	On walls	m2	6		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 6				
<u>Gratings, covers, etc</u>					
158	600 x 600mm Cast iron double seal manhole cover and frame (heavy duty 99kg) SANS 558-1965 Type 8B including 50 x 80mm concrete surround	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
<u>The following in soakaway to septic tank:</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
159	French drains	m3	26		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 26				
<u>Risk of collapse of excavations</u>					
160	Sides of excavations for french drains not exceeding 1,5m deep	m2	60		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 60				
Carried to Collection					
Section No. 3					
EXTERNAL WORKS					
Bill No. 4					
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

R

161	Sides of excavations for french drains exceeding 1,5m deep	m2	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 8				
	<u>Extra over all excavations for carting away</u>				
162	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	18		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 18				
	<u>Keeping excavations free of water</u>				
163	Keeping excavations free of water		Item		
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site compacted to 93% Mod. AASHTO density</u>				
164	In backfilling to top of french drain	m3	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 8				
				Carried to Collection	
					R
				Section No. 3	
				EXTERNAL WORKS	
				Bill No. 4	
				STORMWATER DRAINAGE, SOIL DRAINAGE AND WA	

	<u>Stone pitching of approximately 40-80mm diameter river stones tightly packed</u>					
165	In french drains				m3	18
	1 : 0	2 : 0	4 : 0	7 : 0		
	A : 0	B : 0	C : 0	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
	M : 0	N : 0	O : 0	W : 0		
	X : 18					
	<u>"Bidem B3" filter fabric with 200mm laps</u>					
166	Around stone filling in sub-soil french drains				m2	80
	1 : 0	2 : 0	4 : 0	7 : 0		
	A : 0	B : 0	C : 0	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
	M : 0	N : 0	O : 0	W : 0		
	X : 80					
	<u>UPVC perforated drain pipes (SANS 791) normal duty with socket and rubber ring type including all excavations, backfilling, Class C bedding, compaction, etc in accordance with SANS 1200</u>					
167	110mm Pipes laid in and including trenches not exceeding 1m deep				m	20
	1 : 0	2 : 0	4 : 0	7 : 0		
	A : 0	B : 0	C : 0	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
	M : 0	N : 0	O : 0	W : 0		
	X : 20					

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

<u>Extra over uPVC pipes for fittings</u>					
168	110mm Stop end	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
<u>Cast iron plain ended pipes with "Besaans du Plessis type SSN" couplings</u>					
169	100mm Inspection pipe, 1200mm long	No	4		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4				
<u>Sundries</u>					
170	100mm Cast iron "ABC" cleaning eye inserted in top inspection pipe	No	4		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4				
<u>SUNDRIES</u>					
171	Extra over excavations in earth for sewer trenches, etc for excavating in soft rock	m3	16		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 16				
Carried to Collection					
Section No. 3					
EXTERNAL WORKS					
Bill No. 4					
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

R

172	Extra over excavations in earth for sewer trenches, etc for excavating in hard rock	m3	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 8				
173	110mm Dished gulley not exceeding 1m deep with 150mm cast iron grating and standard concrete gulley surround	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
174	100mm Cast iron cleaning eye fixed to 110mm PVC drain pipe, including 350 x 350 x 75mm thick in-situ 15 MPa/19mm mass concrete surround, the whole finished smooth on all exposed faces with exposed angles rounded, including all necessary excavations, formwork, backfilling, etc.	No	4		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4				
175	Testing drainage pipe system	Item			
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00				
	A : 0.00 B : 0.00 C : 0.00 D : 0.00				
	E : 0.00 F : 0.00 G : 0.00 H : 0.00				
	I : 0.00 J : 0.00 K : 0.00 L : 0.00				
	M : 0.00 N : 0.00 O : 0.00 W : 0.00				
	X : 1.00				

FRENCH DRAINS TO GREYWATER SYSTEMS

The following in one french drain:

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

<u>Excavation in earth or compacted platforms exceeding 2m and not exceeding 4m deep</u>					
176	French drains	m3	10		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 10				
<u>Risk of collapse of excavations</u>					
177	Sides of excavations for french drains not exceeding 1,5m deep	m2	12		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 12				
178	Sides of excavations for french drains exceeding 1,5m deep	m2	7		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 7				
<u>Extra over all excavations for carting away</u>					
179	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 8				
Carried to Collection					
Section No. 3					
EXTERNAL WORKS					
Bill No. 4					
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

R

	<u>Keeping excavations free of water</u>				
180	Keeping excavations free of water		Item		
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site compacted to 93% Mod. AASHTO density</u>				
181	In backfilling to top of french drain	m3	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
	<u>Stone pitching of approximately 20--75mm diameter river stones tightly packed</u>				
182	In french drains	m3	8		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 8				
	<u>"Bidem B3" filter fabric with 200mm laps</u>				
183	Around stone filling in sub-soil french drains	m2	24		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 24				
	Carried to Collection				
	Section No. 3				
	EXTERNAL WORKS				
	Bill No. 4				
	STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

<u>Extra over all excavations for carting away:</u>				
192	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	199	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 199			
<u>Risk of collapse of excavations:</u>				
193	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	632	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 632			
<u>Keeping excavations free of water:</u>				
194	Keeping excavations free of water.		Item	
<u>Earth filling supplied by the contractor compacted to 95% Mod ASHTO density:</u>				
195	Backfilling to trenches, holes, etc.	m3	86	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 86			
196	Under floors, steps, pavings, etc	m3	51	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 51			

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

<u>Finishing top surfaces of concrete smooth with a wood float:</u>					
201	Apron slabs, pavings, etc to slight falls. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 156	m2	156		
<u>Rough Formwork to sides:</u>					
202	Edges, risers, ends and reveals not exceeding 300mm high or wide. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 312	m	312		
<u>Fabric reinforcement:</u>					
203	REF. 156 fabric reinforcement in concrete surface beds, slabs, etc. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 156	m2	156		
<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in Class I mortar:</u>					
204	One brick walls. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 382	m2	382		
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					R

<u>Brickwork reinforcement:</u>						
205	150mm Wide reinforcement built in horizontally.	m	1,470			
	1 : 0 2 : 0 4 : 0 7 : 0					
	A : 0 B : 0 C : 0 D : 0					
	E : 0 F : 0 G : 0 H : 0					
	I : 0 J : 0 K : 0 L : 0					
	M : 0 N : 0 O : 0 W : 0					
	X : 1470					
<u>Galvanised hoop iron cramps, ties, etc.:</u>						
206	30 x 1,6mm Tie secured around tank and 4 times built into concrete (Total for one tank = 12 meters).	No	160			
	1 : 0 2 : 0 4 : 0 7 : 0					
	A : 0 B : 0 C : 0 D : 0					
	E : 0 F : 0 G : 0 H : 0					
	I : 0 J : 0 K : 0 L : 0					
	M : 0 N : 0 O : 0 W : 0					
	X : 160					
<u>"Corobrik Imperial FBX" or similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints</u>						
207	Extra over brickwork for face brickwork externally.	m2	176			
	1 : 0 2 : 0 4 : 0 7 : 0					
	A : 0 B : 0 C : 0 D : 0					
	E : 0 F : 0 G : 0 H : 0					
	I : 0 J : 0 K : 0 L : 0					
	M : 0 N : 0 O : 0 W : 0					
	X : 176					
Carried to Collection						
Section No. 3						
EXTERNAL WORKS						
Bill No. 4						
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA						

		<u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with' Gunplas Pressure Sensitive Tape':</u>			
208	Under surface beds.	m2	156		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 156				
		<u>Rainwater tanks:</u>			
209	5000 Litre polyethylene rotomoulded vertical water storage tank complete with lid, fitted with and including 15mm brass bibtap (Type 108LK15) with suitable adaptor and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a doublestrand of 4mm diameter galvanised wire embedded into concrete. (Note: Tank to be filled with water before Practical Completion).	No	40		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 40				
210	Hole through top of tank lid for 100mm diameter pipe.	No	40		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 40				
		Carried to Collection			
Section No. 3					
EXTERNAL WORKS					
Bill No. 4					
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

R

	Pumps, Etc.			
211	Grundfos Hydro Multi-E or other approved booster pump set with all connections, etc. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 40	No	40	
	"PURERAIN TECHNOLOGIES" OR SIMILAR APPROVED FILTERS			
212	DN 400 hydraulic jump filters installed as per manufacturer's instructions with and including all fixtures. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 40	No	40	
	TAPS, VALVES, ETC.			
213	Approved 15mm standard brass hose bibtap with wingnut, lining and 15mm hose union, manufactured in accordance with SANS 226:2009 Type 2 (BS 1010). 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 40	No	40	
	LOCKS <u>The following locks are to be suitable for master and grand master key operation</u>			
	Carried to Collection			R
	Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA			

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

	<u>Operating Pressure: 10 BAR (max) - 2 BAR (min).</u>				
216	<u>Power: 2.5 kW (380 V - 415 V)</u> 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 2 <u>Domestic water booster pump sundries</u>	No	2		
217	Standard thermometer to HDPE pressure pipes (Class 6) 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 2	No	2		
218	Automatic air vent 'spirax sarco' 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 2	No	2		
219	350mm diameter opening in one brick wall for exhaust fan. 1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 2	No	2		
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R	

220	80mm AVK PN16 or other approved resilient seal gate valve, non-rising spindle and clockwise closing.	No	2
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 2		
	<u>IRRIGATION WATER SUPPLY</u>		
	<u>High Density Polyethelene Class 6 Type IV Piping</u> <u>Complying With SANS 533 With Plasson Or Other</u> <u>Approved Compression Fittings</u>		
221	20mm Pipe laid in ground not exceeding 1m deep, including excavating trench, 150mm thick sand bed under, around and for 300mm above pipe compacted to 93% Mod AASHTO density and backfilling with selected fill material compacted in 300mm layers to 93% Mod AASHTO density with surplus material spread and levelled on site.	m	2,199
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 2199		
222	25mm Pipe laid in ground not exceeding 1m deep, including excavating trench, 150mm thick sand bed under, around and for 300mm above pipe compacted to 93% Mod AASHTO density and backfilling with selected fill material compacted in 300mm layers to 93% Mod AASHTO density with surplus material spread and levelled on site.	m	891
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 891		

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

223	32mm Pipe laid in ground not exceeding 1m deep, including excavating trench, 150mm thick sand bed under, around and for 300mm above pipe compacted to 93% Mod AASHTO density and backfilling with selected fill material compacted in 300mm layers to 93% Mod AASHTO density with surplus material spread and levelled on site.	m	356
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 356		
224	40mm Pipe laid in ground not exceeding 1m deep, including excavating trench, 150mm thick sand bed under, around and for 300mm above pipe compacted to 93% Mod AASHTO density and backfilling with selected fill material compacted in 300mm layers to 93% Mod AASHTO density with surplus material spread and levelled on site.	m	183
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 183		
225	50mm Pipe laid in ground not exceeding 1m deep, including excavating trench, 150mm thick sand bed under, around and for 300mm above pipe compacted to 93% Mod AASHTO density and backfilling with selected fill material compacted in 300mm layers to 93% Mod AASHTO density with surplus material spread and levelled on site.	m	324
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 324 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

226	63mm Pipe laid in ground not exceeding 1m deep, including excavating trench, 150mm thick sand bed under, around and for 300mm above pipe compacted to 93% Mod AASHTO density and backfilling with selected fill material compacted in 300mm layers to 93% Mod AASHTO density with surplus material spread and levelled on site.	m	97
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 97		
227	90mm Pipe laid in ground not exceeding 1m deep, including excavating trench, 150mm thick sand bed under, around and for 300mm above pipe compacted to 93% Mod AASHTO density and backfilling with selected fill material compacted in 300mm layers to 93% Mod AASHTO density with surplus material spread and levelled on site.	m	93
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 93 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		
228	110mm Pipe laid in ground not exceeding 1m deep, including excavating trench, 150mm thick sand bed under, around and for 300mm above pipe compacted to 93% Mod AASHTO density and backfilling with selected fill material compacted in 300mm layers to 93% Mod AASHTO density with surplus material spread and levelled on site.	m	417
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 417 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 0		

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

<u>Extra Over High Density Polyethylene Pipes For The Following Plasson Or Other Approved Compression Fittings</u>									
229	20mm Fittings.				No	342			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 342								
230	25mm Fittings.				No	255			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 255								
231	32mm Bend.				No	102			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 102								
232	40mm Ditto.				No	72			
	1 : 0	2 : 0	4 : 0	7 : 0					
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	W : 0					
	X : 72								
Carried to Collection									
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA							R		

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

233	50mm Ditto.	No	61		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 61				
234	32mm Tee.	No	74		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 74				
235	40mm Ditto.	No	54		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 54				
236	50mm Ditto.	No	43		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 43				
237	50mm End cap.	No	20		
	1 : 0	2 : 0	4 : 0	7 : 0	
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	W : 0	
	X : 20				
Carried to Collection					R
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

238	50mm Saddle.	No	36
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 36		
239	50mm Male adaptor.	No	40
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 40		
240	32 x 25mm Reducing tee.	No	17
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 17		
241	40 x 25mm Ditto.	No	32
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 32		
242	40 x 32mm Ditto.	No	19
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 19		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

243	32 x 16mm Reducing adaptor.	No	21		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 21				
244	32 x 20mm Ditto.	No	13		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 13				
245	32 x 25mm Ditto.	No	14		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 14				
246	40 x 20mm Ditto.	No	22		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 22				
247	40 x 25mm Ditto.	No	33		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 33				
Carried to Collection					R
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

248	50 x 25mm Ditto.	No	22		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 22				
249	50 x 32mm Ditto.	No	13		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 13				
250	110mm Saddle including nuts and bolts and drilling boss and pipe.	No	6		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 6				
	<u>Valves</u>				
251	40mm Ball valve.	No	13		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 13				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R	

252	40mm Diameter Valve and joints to 40mm diameter Upvc Pipe.	No	24		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 24				
253	110mm Ditto.	No	22		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 22				
254	PGA 150 Solenoid valves rainbird.	No	12		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 12				
	<u>Pumps, Booster Pump, Etc.</u>				
255	CMC32-160B Pentax or other approved booster pump.	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R	

256	15kw Motor booster pump complete with and including starter and accessories.	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
257	Pump suction assy complete with and including accessories.	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
258	Pump discharge assy complete with and including accessories.	No	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
	<u>Controls, Conduits, Etc.</u>				
259	2.5mm2 Red house wire.	m	240		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 240				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R	

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

260	2.5mm2 Black house wire.	m	240		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 240				
261	2.5mm2 Control cable.	m	240		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 240				
262	2.5mm2 Earth cable.	m	240		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 240				
263	Cable joints for 2.5mm2 cable.	No	155		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 155				
264	25mm PVC conduit laid in ground, including excavations and backfilling.	m	240		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 240				
				Carried to Collection	
				Section No. 3	
				EXTERNAL WORKS	
				Bill No. 4	
				STORMWATER DRAINAGE, SOIL DRAINAGE AND WA	

265	Miscellaneous control accessories supplied and installed.	No	4		
	1:0 2:0 4:0 7:0				
	A:0 B:0 C:0 D:0				
	E:0 F:0 G:0 H:0				
	I:0 J:0 K:0 L:0				
	M:0 N:0 O:0 W:0				
	X:4				
266	13 Station rainbird controller complete.	No	4		
	1:0 2:0 4:0 7:0				
	A:0 B:0 C:0 D:0				
	E:0 F:0 G:0 H:0				
	I:0 J:0 K:0 L:0				
	M:0 N:0 O:0 W:0				
	X:4				
267	E9 Rainbird controller.	No	4		
	1:0 2:0 4:0 7:0				
	A:0 B:0 C:0 D:0				
	E:0 F:0 G:0 H:0				
	I:0 J:0 K:0 L:0				
	M:0 N:0 O:0 W:0				
	X:4				
268	4kw DOL starter.	No	4		
	1:0 2:0 4:0 7:0				
	A:0 B:0 C:0 D:0				
	E:0 F:0 G:0 H:0				
	I:0 J:0 K:0 L:0				
	M:0 N:0 O:0 W:0				
	X:4				
269	Pressure switch 0 to 6 bar.	No	6		
	1:0 2:0 4:0 7:0				
	A:0 B:0 C:0 D:0				
	E:0 F:0 G:0 H:0				
	I:0 J:0 K:0 L:0				
	M:0 N:0 O:0 W:0				
	X:6				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R	

270	Electrical miscellaneous conduit.	No	22		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 22				
	<u>Sprinkler Units, Etc.</u>				
271	Excavate and install VP3 perrot or other approved sprinklers complete with two 110mm PVC saddles, two 50mm comp. male adaptors, two 50mm comp. male elbows, including backfilling and compaction, etc.	No	44		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 44				
272	Excavate and install RB 5500 or other approved sprinklers complete with 50mm PVC saddles, 25mm swing arm joints, including backfilling and compaction, etc.	No	34		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 34				
273	40mm Rainbird solenoid valve.	No	66		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 66				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				R	

274	7005 Pop up sprinkler complete with number 14 rainbird nozzle.	No	128		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 128				
275	Snap water tight connectors.	No	62		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 62				
276	Miscellaneous inlet fitting - 32mm x 50mm M-A.	No	82		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 82				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

Section No. 3			
EXTERNAL WORKS			
Bill No. 4			
STORMWATER DRAINAGE, SOIL DRAINAGE AND WATER SUPPLY			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	315		
	316		
	317		
	318		
	319		
	320		
	321		
	322		
	323		
	324		
	325		
	326		
	327		
	328		
	329		
	330		
	331		
	332		
	333		
Carried Forward		R	
Section No. 3			
EXTERNAL WORKS			
Bill No. 4			
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA			

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

Section No. 3			
EXTERNAL WORKS			
Bill No. 4			
STORMWATER DRAINAGE, SOIL DRAINAGE AND WATER SUPPLY			
<u>COLLECTION</u>			
	Page No		Amount
Brought Forward		R	
Total Brought Forward from Page No.	334		
	335		
	336		
	337		
	338		
	339		
	340		
	341		
	342		
	343		
	344		
	345		
	346		
	347		
	348		
	349		
	350		
	351		
Carried Forward		R	
Section No. 3			
EXTERNAL WORKS			
Bill No. 4			
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA			

Section No. 3			
EXTERNAL WORKS			
Bill No. 4			
STORMWATER DRAINAGE, SOIL DRAINAGE AND WATER SUPPLY			
<u>COLLECTION</u>			
	Page No		Amount
Brought Forward		R	
Total Brought Forward from Page No.	352		
	353		
	354		
	355		
	356		
	357		
	358		
	359		
	360		
	361		
	362		
	363		
	364		
	365		
	366		
	367		
	368		
	369		
Carried Forward		R	
Section No. 3			
EXTERNAL WORKS			
Bill No. 4			
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA			

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>EXTERNAL WORK</u>			
	<u>BILL NO.5</u>			
	<u>COVERED WALKWAYS AND YARD WALLS (PROVISIONAL)</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			

	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches, holes, etc.	m3	494	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 494			
	<u>Extra over excavation in earth for excavation in</u>			
2	Soft rock	m3	98	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 98			
	Carried to Collection			R
	Section No. 3			
	EXTERNAL WORKS			
	Bill No. 5			
	COVERED WALKWAYS AND YARD WALLS (PROVISIO			

3	Hard rock	m3	196	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 196			
	<u>Extra over all excavation for cart away</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	341	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 341			
	<u>Risk of collapse of excavations</u>			
5	Side of trench and hole excavations not exceeding 1,5m deep	m2	987	
	1 : 0 2 : 0 4 : 0 7 : 0			
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 W : 0			
	X : 987			
	<u>Keeping excavation free of water</u>			
6	Keeping excavation free of all water other than subterranean water		Item	
	1 : 0.00 2 : 0.00 4 : 0.00 7 : 0.00			
	A : 0.00 B : 0.00 C : 0.00 D : 0.00			
	E : 0.00 F : 0.00 G : 0.00 H : 0.00			
	I : 0.00 J : 0.00 K : 0.00 L : 0.00			
	M : 0.00 N : 0.00 O : 0.00 W : 0.00			
	X : 1.00			

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 5
COVERED WALKWAYS AND YARD WALLS (PROVISIO

R

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density

7	Backfilling to trenches, hoes, etc	m3	153		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 153				

Approved non-expansive imported inert granular filling under solid floors, supplied and carted on by Contractor, compacted in layers not exceeding 150mm to 93% HCE density

8	Under floors, steps, paving, etc	m3	882		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 882				

4,8mm Thick "Africote" natural stone chips and granules laid lose (colour: black dolomite)

9	On floors (in duct areas)	m2	64		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 64				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 5
COVERED WALKWAYS AND YARD WALLS (PROVISIO

Compaction of surfaces

- | | | | | |
|----|--|----|-----|--|
| 10 | Compaction of ground surface under floors, trenches, etc including scarifying for a depth of 150mm breaking down oversize material adding suitable material where necessary and compacting to 90% Mod AASHTO density | m2 | 882 | |
|----|--|----|-----|--|

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0

X : 882

Soil insecticide

- | | | | | |
|----|--|----|-----|--|
| 11 | Under floors etc including forming and poisoning shallow furrows against foundation wall etc, filling in furrows and ramming | m2 | 882 | |
|----|--|----|-----|--|

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0

X : 882

- | | | | | |
|----|-------------------------------------|----|-------|--|
| 12 | To bottom and sides of trenches etc | m2 | 1,069 | |
|----|-------------------------------------|----|-------|--|

1 : 0	2 : 0	4 : 0	7 : 0
A : 0	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	H : 0
I : 0	J : 0	K : 0	L : 0
M : 0	N : 0	O : 0	W : 0

X : 1069

CONCRETE, FORMWORK AND REINFORCEMENT

REINFORCEMENT CONCRETE

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 5
COVERED WALKWAYS AND YARD WALLS (PROVISIO

R

<u>25MPa/19mm concrete</u>							
13	Strip footings			m3	143		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 143						
14	Surface beds on waterproofing cast in panels			m3	134		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 134						
15	Steps, ramps, etc			m3	36		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 36						
<u>TEST BLOCKS</u>							
16	Making and testing 150 x 150 150mm concrete strength test cube (Provisional)			No	50		
	1 : 0	2 : 0	4 : 0	7 : 0			
	A : 0	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	W : 0			
	X : 50						
<u>CONCRETE SUNDRIES</u>							
Carried to Collection							
Section No. 3 EXTERNAL WORKS Bill No. 5 COVERED WALKWAYS AND YARD WALLS (PROVISIO						R	

Finishing top surfaces of concrete smooth with a wood float

17	Surface beds, ramps, etc	m2	891		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 891				

SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth formwork to sides

18	Edges of slabs not exceeding 300mm high	m	1,006		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1006				

REINFORCEMENT

Mild steelbar reinforcement to structural concrete work

19	All diameter bars	t	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 3				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 5
COVERED WALKWAYS AND YARD WALLS (PROVISIO

R

MOVEMENT JOINTS ETC (PROVISONAL)

20	100mm isolation joints not exceeding 300mm high	m	107		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 107				

21	10 x 12mm polysulphide sealant	m	107		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 107				

MASONRY

Brickwork of NFP bricks in class II mortar

22	One brick walls	m2	176		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 176				

23	Piers	m3	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				

FACE BRICKWORK

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R

Section No. 3
EXTERNAL WORKS
Bill No. 5
COVERED WALKWAYS AND YARD WALLS (PROVISIO

"Corobrik Imperial FBX" or Similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints

24	Extra over brickwork for facing brickwork in foundation	m2	176		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 176				
25	One brick walls pointed on both sides	m2	451		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 451				
26	Piers	m3	2		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 2				
27	Face brick-on-edge coping on top of one brick wall in cement mortar and pointing on top and both sides	m	716		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 716				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 5
COVERED WALKWAYS AND YARD WALLS (PROVISIO

Brickwork reinforcement

28	150mm Wide reinforcement built in horizontal in foundation	m	516		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 516				

DAMP-PROOFING OF WALLS AND FLOORS

One layer of 375 micron embossed damp proof course

29	On foundation walls	m2	215		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 215				

"COLOURED ROOF SHEETING OR SIMILAR AND APPROVED

Supplementary Preambles

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 5
COVERED WALKWAYS AND YARD WALLS (PROVISIO

R

0,55mm "Global Roofing Solutions 700mm cover Klip-Tite" galvanised troughed sheeting steel Z200 spelter ISQ 550 "Chromadek - Traffic Green" finish on one side, topcoat and pebble grey backing coat roof sheeting in single lengths fixed to 76 x 50mm purlins or rails and 0,55mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions

30	Roof covering with pitch not exceeding 25 degrees.	m2	882		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 882				

STRUCTURAL STEELWORK

The following in hot dipped galvanised steel structure to walkways

31	75 x 75 x 3mm wall thickness hollow section columns, mitred at angles and fitted with 150 x 150 x 3mm footplates	m	171		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 171				

32	60 x 60 x 2,5mm Hollow section purlin bolted to brackets	m	606		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 606				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 5
COVERED WALKWAYS AND YARD WALLS (PROVISIO

33	10mm Diameter cadmium plated bolt 85mm long with head, nut and washer	No	191		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 191				
	<u>PAINTING</u>				
	<u>Prepare and apply one coat zinc chromate primer, one undercoat and two coats high gloss enamel paint</u>				
34	On steel members not exceeding 300mm girth	m	1,061		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 1061				
	<u>RAINWATER DISPOSAL:</u>				
	<u>uPVC Pipes</u>				
35	100mm diameter half- round uPVC eaves gutter.	m	857		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 857				
36	100mm diameter Rainwater downpipe with brackets fixed to brick wall or concrete.	m	156		
	1 : 0 2 : 0 4 : 0 7 : 0 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 W : 0 X : 156				
Carried to Collection				R	
Section No. 3					
EXTERNAL WORKS					
Bill No. 5					
COVERED WALKWAYS AND YARD WALLS (PROVISIO					

37	Extra over rainwater downpipe for shoe.	No	22		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 22				
	<u>STRUCTURAL TIMBERS TO PERGOLA</u>				
38	100/124mm Ø x 7530mm wide beam, bolted	No	95		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 95				
39	32/49mm Diameter laths in various lenghts nailed to pole columns at 80mm centres	m	418		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 418				
	<u>Bolts, nuts, washers, etc</u>				
40	80mm Threaded rod	No	870		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 870				

[illegible]

Item No		Quantity	Rate	Amount																				
	<p><u>SECTION NO.3</u></p> <p><u>EXTERNAL WORK</u></p> <p><u>BILL NO.6</u></p> <p><u>PARKING AND PAVING</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>PAVING</u></p> <p><u>Materials and workmanship must be in accordance to the following SABS 1200 specifications:</u></p> <p>C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks</p> <p><u>EARTHWORKS</u></p> <p><u>Site clearance</u></p> <p>1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc</p> <table><tr><td>1 : 0</td><td>2 : 0</td><td>4 : 0</td><td>7 : 0</td></tr><tr><td>A : 0</td><td>B : 0</td><td>C : 0</td><td>D : 0</td></tr><tr><td>E : 0</td><td>F : 0</td><td>G : 0</td><td>H : 0</td></tr><tr><td>I : 0</td><td>J : 0</td><td>K : 0</td><td>L : 0</td></tr><tr><td>M : 0</td><td>N : 0</td><td>O : 0</td><td>W : 0</td></tr></table> <p>X : 4254</p>	1 : 0	2 : 0	4 : 0	7 : 0	A : 0	B : 0	C : 0	D : 0	E : 0	F : 0	G : 0	H : 0	I : 0	J : 0	K : 0	L : 0	M : 0	N : 0	O : 0	W : 0	m2	4,254	
1 : 0	2 : 0	4 : 0	7 : 0																					
A : 0	B : 0	C : 0	D : 0																					
E : 0	F : 0	G : 0	H : 0																					
I : 0	J : 0	K : 0	L : 0																					
M : 0	N : 0	O : 0	W : 0																					
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 EXTERNAL WORKS Bill No. 6 PARKING AND PAVING</p>																							
			R																					

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

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6	Ditto, but in hard rock	m3	178		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 178				
	<u>Paving layers</u>				
	The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.				
	Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit				
7	150mm Selected filling previously set aside compacted to 93% mod. AASHTO density	m2	4,254		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4254				
8	150mm Imported G7 material compacted to 95% mod. AASHTO density	m2	4,254		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4254				
				Carried to Collection	
					R
				Section No. 3	
				EXTERNAL WORKS	
				Bill No. 6	
				PARKING AND PAVING	

9	150mm Imported C4 material with and including 3% 32,50 BV cement and consolidated to 97% mod. AASHTO density	m2	4,254		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4254				
10	Provide a sum of R5 000,00 (Five thousand rand) for compaction tests as required by the Engineer		Item		5,000.00
	<u>PAVING</u>				
	<u>Interlocking paving</u>				
11	80mm Thick double interlocking (DZZ) precast grey coloured concrete paving blocks laid in a herringbone pattern on and including 20mm sand founding layer and covered with sandlayer and sweep into joints	m2	4,254		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4254				
12	Circular cutting to paving	m	33		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 33				
13	Weed-killing treatment of surface under paving	m2	4,254		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 4254				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 6 PARKING AND PAVING					R

Kerbs, etc

14	Precast concrete figure 8 mountable kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	6,072		
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>D : 0</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div>				
	X : 6072				
15	Precast concrete figure 7 kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	945		
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>D : 0</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div>				
	X : 945				
16	Precast concrete figure 7 kerb (SABS 927), circular on plan n.e 4m area levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	147		
	<div> <div>1 : 0</div> <div>2 : 0</div> <div>4 : 0</div> <div>7 : 0</div> </div> <div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>D : 0</div> </div> <div> <div>E : 0</div> <div>F : 0</div> <div>G : 0</div> <div>H : 0</div> </div> <div> <div>I : 0</div> <div>J : 0</div> <div>K : 0</div> <div>L : 0</div> </div> <div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>W : 0</div> </div>				
	X : 147				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

[illegible]

Non-reflectorized Paint Applied at Nominal Rate of 0,42 l/m2 (or Proprietary Brand Road-Marking Material (Nominal Rate of Application and Particulars Stated))

21	White line 300mm wide (broken or unbroken)	km	6
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 6		
22	White characters and symbols.	m2	12
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 12		
23	Stop signs letters on road surface	m2	4
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 4		
24	Yield signs letters on road surface	m2	2
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 2		

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

25	Traffic island markings (any colour)	m2	23
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 23		
	<u>Setting out and Premarking</u>		
26	Lines (excluding traffic island markings, characters and symbols)	km	6
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 6		
27	Special markings ??detail??.	No	15
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 15		
	<u>CARPORTS</u>		
28	300 x 300 x 900mm Mass concrete base (15Mpa/19mm) including all excavations, disposal, etc	No	24
	1 : 0 2 : 0 4 : 0 7 : 0		
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0 H : 0		
	I : 0 J : 0 K : 0 L : 0		
	M : 0 N : 0 O : 0 W : 0		
	X : 24		

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

29	75 x 75 x 3.5mm Mild steel square hollow section column, 3600mm high with 200 x 200 x 4mm thick base plate welded on and cast 600mm deep into concrete base (elsewhere measured)	No	24		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 24				
30	75 x 75 x 3.5mm Mild steel hollow section beams 8000mm long welded to columns (elsewhere measured)	No	48		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 48				
31	50 x 50x 2mm Mild steel square hollow section purlins bent to radius and spanning about 7000mm wide welded at both ends to steel beams (elsewhere measured)	No	144		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 144				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 6 PARKING AND PAVING				R	

0,55mm "Global Roofing Solutions 700mm cover Klip-Tite" galvanised troughed sheeting steel Z200 spelter ISQ 550 "Chromadek - Traffic Green" finish on one side, topcoat and pebble frey backing coat roof sheeting in single lengths fixed to 76 x 50mm purlins or rails and 0,55mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions

32	Roof coverings with pitch not exceeding 25 degrees	m2	64		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 64				

PAINTING

Prepare and apply one coat zinc chromate primer, one undercoat and two coats high gloss enamel paint

33	On steel members not exceeding 300mm girth	m	1,008		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1008				

FLAGPOLES

34	Excavate in earth not exceeding 2m deep below natural, excavated or reduced ground level and depositing excavated material in stock piles on site	m3	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

R

35	25MPa/19mm mass concrete in bases	m3	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 1				
36	200mm Diameter x 10m long	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 3				
37	50mm Diameter mild steel pully wheel	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 3				
38	100mm T-bracket screwed to flag pole	No	3		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 0				
	X : 3				
39	Standard size 900 x 600mm South African national flag for flagpole.	No	1		
	1 : 0 2 : 0 4 : 0 7 : 0				
	A : 0 B : 0 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 W : 1				
	X : 0				
Carried to Collection					
Section No. 3 EXTERNAL WORKS Bill No. 6 PARKING AND PAVING				R	

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

40 Standard size 900 x 600mm Limpopo Provincial
Government flag for flagpole.

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 1
X : 0

No

1

41 Standard size 900 x 600mm Asiphumelele Special
School logo flag for flagpole.

1 : 0 2 : 0 4 : 0 7 : 0
A : 0 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0 H : 0
I : 0 J : 0 K : 0 L : 0
M : 0 N : 0 O : 0 W : 1
X : 0

No

1

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

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**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO 4 CPG AND BUILD PROGRAMME</u>			
	<u>BILL NO. 1 CPG AND BUILD PROGRAMME (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.			
	<u>MINIMUM 30% SUB-CONTRACTING</u>			
1	Provision is made for 30% subcontracting to SMMEs in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.1. The 7.5% is the contractors allowance for the P&G's for the 30% sub-contractors (SMME's).The PQS is to define the actual P&G items applicable to the SMME's e.g. scaffolding , PPE etc.	Item		800,000.00
2	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%		
3	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%		
	<u>MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS</u>			
4	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.2. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Manufacturers by main contractor and subcontractors based on determination by PQS taking into account specific project variables	Item		300,000.00
	Carried to Collection		R	
	Section No. 4 PROVISIONAL SUMS Bill No. 1 CPG			

5	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%		
6	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%		
<u>MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS</u>				
7	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.2. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Manufacturers by main contractor and subcontractors based on determination by PQS taking into account specific project variables	Item	400,000.00	
8	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%		
9	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%		
<u>MINIMUM TARGETED LOCAL LABOUR SKILLS DEVELOPMENT</u>				
10	Provision is made for the Minimum Targeted Local Labour Skills Development CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.4. This allowance is for the cost for a suitably qualified and experienced training service provider appointed by the main contractor including monitoring and monthly reporting.	Item	300,000.00	
11	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%		
12	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%		
Carried to Collection			R	
Section No. 4 PROVISIONAL SUMS Bill No. 1 CPG				

MINIMUM TARGETED ENTERPRISE DEVELOPMENT

13 A provisional amount has been allowed for in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.5. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.

Item 500,000.00

14 Allowance for profit all inclusive of associated costs to the contractor for implementation.

%

15 Allowance for attendance all inclusive of associated costs to the contractor for implementation.

%

MINIMUM TARGETED SKILLS DEVELOPMENT GOALS

16 A provisional amount has been allowed for the Minimum Targeted Development CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.6.

- stipends payable to the beneficiaries
- appointment of training coordinator
- appointment of mentor (where applicable)
- appointment of training service providers
- other additional costs as per table 3 of the Standard
- monitoring and monthly reporting

Item 300,000.00

17 Allowance for profit all inclusive of associated costs to the contractor for implementation.

%

18 Allowance for attendance all inclusive of associated costs to the contractor for implementation.

%

NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME

19 The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities. s

Item 400,000.00

20 Allowance for profit all inclusive of associated costs to the contractor for implementation.

%

Carried to Collection

R

Section No. 4
PROVISIONAL SUMS
Bill No. 1
CPG

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

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Section No. 4

PROVISIONAL SUMS

Bill No. 1

CPG

COLLECTION

Total Brought Forward from Page No.

Page
No

Amount

417

418

419

420

Carried Forward to Summary of Section No. 4

R

Section No. 4
PROVISIONAL SUMS
Bill No. 1
CPG

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO.2</u>			
<u>PROVISIONAL SUMS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
NOTE: Tenderers are referred to the definition of general attendance on nominated sub-contractors given in Clause 9 of the Preliminaries			
NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill			
Carried to Collection			R
Section No. 4			
PROVISIONAL SUMS			
Bill No. 2			
PROVISIONAL SUMS			

**THE FOLLOWING PROVISIONAL SUMS ARE FOR
WORK TO BE EXECUTED BY SELECTED
SUBCONTRACTORS**

The following Provisional Sums are for specialists work to be executed by a selected Sub-contractor who upon appointment in terms of the Conditions of Contract shall be deemed to be a Domestic Sub-Contractor to the Contractor

A Selected Sub-Contractor shall be a Sub-contractor executing work for which a sum of money is provided for in the Bills of Quantities or a Sub-contractor executing additional specialist work which arises as a result of an instruction by the Principal Agent/Engineer

Tender documents for such work shall be prepared by the Principal Agent/Engineer in consultation with and to the approval of the Contractor and such tender document shall be issued by the Principal Agent/Engineer to a list of tenderers agreed upon between the Principal Agent/Engineer and Contractor. Tenders shall be submitted to the Principal Agent/Engineer

The Selected Sub-contractor shall be chosen by the Principal Agent/Engineer and the Contractor, and the Contractor shall satisfy himself that such selected sub-contractor can meet the requirements of the Sub-Contract agreement and the Contractor shall inform the Principal Agent/Engineer accordingly

The procedure relating to the method of selection, obtaining of tenders, adjudication thereof and the appointment of the Selected Sub-contractor shall not create any contractual relationship between the Client and the Selected Sub-contractor

School Furnitures, etc

1	Provide the sum of R 500 000,00 (Five Hundred Thousand rands) for school furniture by Specialists	Item	500,000.00
2	Allow for giving every facility to Specialists as described	Item	
3	Allow for profit on above if required	Item	

Carried to Collection

R

Section No. 4
PROVISIONAL SUMS
Bill No. 2
PROVISIONAL SUMS

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

<u>Laundry Equipment, etc</u>				
4	Provide the sum of R 300 000,00 (Three Hundred Thousand rands) for supply and installation of laundry equipment complete by Specialists	Item		300,000.00
5	Allow for giving every facility to Specialists as described	Item		
6	Allow for profit on above if required	Item		
<u>Dining Hall Furniture, etc</u>				
7	Provide the sum of R 300 000,00 (Three Hundred Thousand rands) for supply and installation of dining hall furniture complete by Specialists	Item		300,000.00
8	Allow for giving every facility to Specialists as described	Item		
9	Allow for profit on above if required	Item		
<u>House Master Furniture, etc</u>				
10	Provide the sum of R 80 000,00 (Eighty Thousand rands) for supply of house master furniture complete by Specialists	Item		80,000.00
11	Allow for giving every facility to Specialists as described	Item		
12	Allow for profit on above if required	Item		
<u>Cold and Freezer Rooms Installations</u>				
13	Provide the sum of R200 000,00 (Two hundred thousand rand) for cold and freezer rooms Installations by Specialists	Item		200,000.00
14	Allow for giving every facility to Specialists as described	Item		
15	Allow for profit on above if required	Item		
<u>Hostel Furnitures, etc</u>				
16	Provide the sum of R 540 000,00 (Five Hundred Forty Thousand rands) for supply of hostel furniture	Item		540,000.00
Carried to Collection			R	
Section No. 4 PROVISIONAL SUMS Bill No. 2 PROVISIONAL SUMS				

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

17	Allow for giving every facility to Specialists as described	Item		
18	Allow for profit on above if required	Item		
	<u>Drilling and Equipping of borehole</u>			
19	Provide a sum of R350 000,00 (Three hundred fifty thousand rand) for the drilling and equipping of boreholes complete by Specialists	Item	350,000.00	
20	Allow for giving every facility to Specialists as described	Item		
21	Allow for profit on above if required	Item		
	<u>Interactive Smart Boards</u>			
22	Provide a sum of R150 000,00 (One hundred fifty thousand rand) for the supply and installation of interactive smart boards complete by Specialists	Item	150,000.00	
23	Allow for giving every facility to Specialists as described	Item		
	<u>Aluminium Louvres</u>			
24	Provide a sum of R350 000,00 (Three hundred fifty thousand rand) for the supply and installation of aluminium louvres complete by Specialists	Item	350,000.00	
25	Allow for profit on above if required	Item		
26	Allow for profit on above if required	Item		
	<u>Community Liaison Officer</u>			
27	Provide the sum of R 252 000,00 (Two Hundred Fifty two thousand rand) for community liaison officer	Item	252,000.00	
28	Allow for giving every facility to Specialists as described	Item		
29	Allow for profit on above if required	Item		
Carried to Collection			R	
Section No. 4				
PROVISIONAL SUMS				
Bill No. 2				
PROVISIONAL SUMS				

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

	<u>Sign Board</u>				
30	Provide the sum of R20 000,00 (Twenty thousand rand) for supply and installatins of signboard by Specialists	Item		20,000.00	
31	Allow for giving every facility to Specialists as described	Item			
32	Allow for profit on above if required	Item			
	<u>Electrical Works, etc</u>				
33	Provide the sum of R6 000 000,00 (Six Million rand) for supply and installations of electrical works, etc	Item			
34	Allow for giving every facility to Specialists as described	Item			
35	Allow for profit on above if required	Item			
	<u>Mechanical Works, etc</u>				
36	Provide the sum of R4 000 000,00 (Four Million rand) for supply and installations of mechanical works, etc	Item			
37	Allow for giving every facility to Specialists as described	Item			
38	Allow for profit on above if required	Item			
	<u>IT Works, etc</u>				
39	Provide the sum of R1 000 000,00 (One Million rand) for supply and installations of IT works, etc	Item			
40	Allow for giving every facility to Specialists as described	Item			
41	Allow for profit on above if required	Item			
	<u>CONTINGENCIES</u>				
	<u>Contingencies:</u>				
42	Provide the amount of R 2 000 000.00 (Two Million rand) for contingencies to be used by the Principal Agent in terms of clause 17 of the principal Building Agreement.	Item		2,000,000.00	
	Carried to Collection		R		
	Section No. 4 PROVISIONAL SUMS Bill No. 2 PROVISIONAL SUMS				

SPECIAL CONDITIONS

43 Provide the sum of R 4 000 000,00 (Four Million rand)
for fluctuations in cost

Item4,000,000.00

Carried to Collection

R

Section No. 4
PROVISIONAL SUMS
Bill No. 2
PROVISIONAL SUMS

Section No. 4

PROVISIONAL SUMS

Bill No. 2

PROVISIONAL SUMS

COLLECTION

Total Brought Forward from Page No.

Page
No

Amount

422

423

424

425

426

427

Carried Forward to Summary of Section No. 4

R

Section No. 4
PROVISIONAL SUMS
Bill No. 2
PROVISIONAL SUMS

**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

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**ASIPHUMELELE SPECIAL SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO: EDDP 1824/24**

Section No	FINAL SUMMARY	Page No	Amount
1	PRELIMINARIES	72	
2	BUILDING WORKS	280	
3	EXTERNAL WORKS	416	
4	PROVISIONAL SUMS	429	
	Sub Total	R	
	<u>Add:</u> Value Added Tax at 15%	R	
Carried to Form of Tender		R	