

C.2.2 BILLS OF QUANTITIES/LUMP SUM DOCUMENT

Volume 2 of 3: 1st Part B (page 1-99)

SECTION 1:
PRELIMINARIES
OCCUPATIONAL HEALTH AND SAFETY ACT

NEWCASTLE: REPAIR AND RENOVATIONS TO DECENTRALISED TRAINING FACILITY FOR SAPS

Item No	Quantity	Rate	Amount
<u>SECTION NUMBER 1</u> <u>BILL NUMBER 1</u> <u>PRELIMINARIES</u> -WORK GROUP 190- <u>MEANING OF TERMS "TENDER / TENDERER"</u> Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"			
Section No. 1 Bill No. 1 Preliminaries RUBIQUANT QUANTITY SURVEYORS			Carried to Collection R

BUILDING AGREEMENT AND PRELIMINARIES

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

The **JBCC** Principal Building Agreement **contract data for organs of state and other public sector bodies** forms an integral part of this **agreement**

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** / lump sum document, amended as hereinafter described

The **contractor** is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause

The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only

Where any item is not relevant to this **agreement** such item is marked N/A signifying "not applicable"

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

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**

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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

PRICING OF PRELIMINARIES

Should the **contractor** select Option A in the **contract data for organs of state and other public sector bodies** 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)

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PRICING OF BILLS OF QUANTITIES

- 1 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

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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

A1.0 DEFINITIONS AND INTERPRETATION

- 2 Clause 1.0
The following definitions replace corresponding definitions or are added to the definitions in the **JBCC PRINCIPAL BUILDING AGREEMENT** (Edition 6.2 of May 2018), whatever the case may be

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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

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

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

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

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

DEFAULT INTEREST: No Clause

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]

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

LETTER OF ACCEPTANCE: The letter of formal acceptance of the Contractor's or Service Provider's Tender / Bid, issued and signed by the Employer

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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

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

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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A2.0 LAW, REGULATIONS AND NOTICES

3 Clause 2.0

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A3.0 OFFER AND ACCEPTANCE

4 **Replace Clause 3.3 with the following:**
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]

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A4.0 CESSION AND ASSIGNMENT

- 5 Clause 4.0
Ref Clause 6.7 [CD] - Clause 4.2
Replace Clause 4.3 with the following:
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
- F:..... V:.....
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A5.0 DOCUMENTS

- 6 **Replace last sentence of Clause 5.2 with the following:**
The original signed agreement shall be held by the **Employer**
- Replace Clause 5.4 with the following:**
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
- Replace Clause 5.5 with the following:**
The parties may publish or disclose on any platform only the contract scope and contract amount
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A6.0 EMPLOYER'S AGENTS

- 7 Clause 6.0
Replace Clause 6.5 with the following:
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

Add the following as Clause 6.7:
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

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A7.0 DESIGN RESPONSIBILITY

- 8 Clause 7.0
Replace first sentence of Clause 7.2 with the following:
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

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INSURANCES AND SECURITIES

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A8.0 WORKS RISK

- 9 Clause 8.0
Replace Clause 8.4 with the following:
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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A9.0 INDEMNITIES

- 10 Clause 9.0
Add the following to the end of the first sentence of Clause 9.2.7:
".... due to no fault of the **contractor**
- 9.2.9 No Clause
- 9.2.10 No Clause

Add the following as clause 9.3:
The employer's rights to claim damages for the contractor's omissions and actions will not be affected.

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A10.0 INSURANCES

- 11 Clause 10.0
Replace Clause 10.1 with the following:
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]

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Add the following as Clause 10.1.5.1:

Hi Risk Insurance

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

Add the following as Clause 10.1.5.1.1 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

10.1.5.1.2 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

10.1.5.1.3 Replace Clause with the following:

It is the responsibility of the contractor to ensure that he

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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.

10.1.5.1.4 Replace Clause with the following:

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

10.2 Replace Clause with the following:

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

10.6 No Clause

Add the following as Clause 10.11

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

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A11.0 SECURITIES

12 **Add the following as to the relevant related Clauses as follows:**

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Add the following to Clause 11.1:

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).

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.

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

11.1.1 No Clause

11.1.2 No Clause

11.2.2 No Clause

11.3 No Clause

Replace Clause 11.4.1 with the following:

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 25.12.6 to 25.12.10.

11.5 No Clause

11.6 No Clause

11.7 No Clause

11.8 No Clause

11.9 No Clause

11.10 No Clause

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Add the following as Clause 11.11:

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

Add the following as Clause 11.11.1:

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.

Add the following as Clause 11.11.2:

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.

Add the following as Clause 11.11.3:

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

Add the following as Clause 11.11.4:

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.

Add the following as Clause 11.11.5:

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.

Add the following as Clause 11.11.6:

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.

Add the following as Clause 11.12:

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

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Add the following as Clause 11.12.1:

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.

Add the following as Clause 11.12.2:

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

Add the following as Clause 11.12.3:

The employer shall return the variable construction guarantee to the contractor within fourteen

Add the following as Clause 11.12.4:

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.

Add the following as Clause 11.13:

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:

Add the following as Clause 11.13.1:

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).

Add the following as Clause 11.13.2:

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.

Add the following as Clause 11.13.3:

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

Add the following as Clause 11.13.4:

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

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Add the following as Clause 11.13.5:

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.

Add the following as Clause 11.14.1:

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:

Add the following as Clause 11.14.2:

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.

Add the following as Clause 11.14.3:

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.

Add the following as Clause 11.14.4:

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

Add the following as Clause 11.14.5:

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.

Add the following as Clause 11.15:

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

Add the following as Clause 11.15.1:

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

Add the following as Clause 11.15.2:

The employer shall be entitled to recover expense and

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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.

Add the following as Clause 11.16:

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.

Add the following as Clause 11.17:

Should the contractor fail to furnish the security in terms of 11.2 the employer, in his sole discretion, and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT).

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EXECUTION

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A12.0 OBLIGATIONS OF THE PARTIES

Clause 12.0

12.1.1 No Clause

Replace Clause 12.1.5 with the following:

Give possession of the site to the contractor within ten (10) working days after approval of the Health and Safety Plan or the issue of a construction permit by the Department of Labour, if applicable, after the contractor complied with the terms of 12.2.22

12.1.6 No Clause

12.1.8 No Clause

Replace Clause 12.2.2 with the following:

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

Replace Clause 12.2.5 with the following :

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

Replace Clause 12.2.13 with the following:

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

Add the following as Clause 12.2.22:

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)

Add the following as Clause 12.2.23:

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

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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]

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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]

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A13.0 SETTING OUT

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Clause 13.0

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	<u>A14.0 NOMINATED SUBCONTRACTORS</u>			
16	Clause 14.0 Ref Clause 6.7 [CD] - Clause 14.1.4 14.1.5 No Clause Replace "principal agent " with "employer" [6.7 [CD]] in Clause 14.4.1 Ref Clause 6.7 [CD] - Clause 14.6 F:..... V:..... T:.....	Item		
17	<u>A15.0 SELECTED SUBCONTRACTORS</u> Clause 15.0 Ref Clause 6.7 [CD] - Clause 15.1.4 & Clause 15.5 15.1.5 No Clause Replace Clause 15.1.2 with the following: The principal agent shall call for tenders from a list of tenderers agreed between the contractor and the employer Replace "principal agent " with "employer" [6.7 [CD]] in Clause 15.4.1 F:..... V:..... T:.....	m		
18	<u>A16.0 DIRECT CONTRACTORS</u> Clause 16.0 F:..... V:..... T:.....	Item		
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A17.0 CONTRACT INSTRUCTIONS

- 19 Clause 17.0
Replace Clause 17.4 with the following:
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
- Add the following clause as Clause 17.6:**
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.

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COMPLETION

A18.0 INTERIM COMPLETION

- 20 Clause 18.0 (N/A)
- F:..... V:.....
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A19.0 PRACTICAL COMPLETION

- 21 Clause 19.0
- Replace Clause 19.5 with the following:**
On issue of the only or last certificate of practical completion the employer shall be entitled to possession of the works and the site. On issue of the certificate of practical completion for a section, the employer shall be entitled to possession of such section
- Add the following as Clause 19.8:**
WORKS COMPLETION
(1) Within seven (7) calendar days of the date of practical completion the principal agent shall issue to the contractor a works completion list defining the outstanding work and defects apparent at the date of practical completion to be completed or rectified to achieve works completion.
(2) Where, in the opinion of the contractor, the works completion list has been completed the contractor shall

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notify the principal agent who shall inspect within seven (7) calendar days of receipt of such a notice. Where, in the opinion of the principal agent, the Works Completion list:

(2)(a) Has been satisfactorily completed, the principal agent shall forthwith issue a certificate of Works Completion to the contractor with a copy to the employer

(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

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certificate of Works Completion in terms of 19.8(2)(a) or 19.8(3).

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

A20.0 COMPLETION IN SECTIONS

22 Clause 20.0

Add the following as Clause 20.2.1.A
A certificate of Works Completion [19.8]

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

A21.0 DEFECTS LIABILITY PERIOD AND FINAL COMPLETION

23 Clause 21.0

Replace Clause 21.1 with the following:
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 (if we use works completion)

Replace Clause 21.6 with the following:
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

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the works where defects liability period has expired

21.6.1 Omit Clause

21.6.2 Omit Clause

Add the following as Clause 21.13:

The ninety (90) calendar days defects liability period for the works [21.1] is replaced with an extended defects liability period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements in B14

Add the following as Clause 21.14:

Penalties will be applied if the items on the completion list have not been attended to within a period of ninety (90) calendar days [21.1]. If additional defect items have being added to the list during this period, then the Principal Agent and Contractor will agree on a revised completion date. Failing in achieving the revised date will result in penalties being applied.[B12.0]

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

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A22.0 LATENT DEFECTS LIABILITY PERIOD

24 Clause 22.0

22.3.2 No Clause

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

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**A23.0 REVISION OF THE DATE FOR PRACTICAL
COMPLETION**

25 Clause 23.0

Ref Clause 6.7 [CD] – Clause 23.1
Ref Clause 6.7 [CD] – Clause 23.2
23.2.13 No Clause

Replace Clause 23.3 with the following:

Further circumstances that delays practical completion
due to any other cause beyond the contractor's
reasonable control that could not have reasonably been
anticipated and provided for which the contractor may
be entitled to a revision of the date for practical
completion, with or without an adjustment of the contract
value as determined by the Employer [6.7 CD]

Ref Clause 6.7 [CD] - Clause 23.7
Ref Clause 6.7 [CD] - Clause 23.8

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A24.0 PENALTY FOR LATE OR NON-COMPLETION

26 Clause 24.0

Replace Clause 24.1 with the following:

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]

Replace Clause 24.2 with the following:

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:

Replace Clause 24.2.1 with the following:

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

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Item

PAYMENT

A25.0 PAYMENT

27 Clause 25.0

Replace Clause 25.2 with the following:

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

Add the following to Clause 25.3:

25.3.12 Monthly Local content report,

25.3.13 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)

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25.3.14 Tax Invoice

25.3.15 Labour intensive report

25.3.16 Contract participation goal reports

25.5 No Clause

Replace Clause 25.6 with the following:

Materials and goods will only be certified and paid for upon providing proof of full payment to the supplier and proof of transfer of ownership from the supplier to the contractor by the contractor. Once paid, material and goods shall become the property of the employer and shall not be removed from site without the written authority of the Employer.

25.7.5 No clause.

Replace Clause 25.10 with the following:

The employer shall pay the contractor the amount stipulated in an issued payment certificate, correct in all material respects, within thirty (30) calendar days from the date of receiving the payment certificate, invoice and all other substantiating documentation for items certified in the payment certificate

Replace Clauses 25.12 to 25.12.3 with the following:

The value certified shall be subject to the following percentage adjustments :

(Clauses 25.12.1 to 25.12.5 shall be applicable to a contract sum up to R1 million. In the event of a contract sum more than R1 million for Options D & E (C 1.0 Securities [11.0]) Clauses 25.12.1 to 25.12.5 shall be applicable)

25.12.1 Where a security is selected in terms of C 1.0 Securities [11.0], the value of the works in terms of 25.1 and of the materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

25.12.2 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion

25.12.3 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

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final completion

25.12.4 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

25.12.5 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

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**A26.0 ADJUSTMENT OF THE CONTRACT VALUE
AND FINAL ACCOUNT**

28 Clause 26.0

Ref Clause 6.7 [CD] – Clause 26.1

Omit Clause 26.4.3

Ref Clause 6.7 [CD] – Clause 26.7

Replace Clause 26.10 with the following:

The principal agent shall prepare the final account in consultation with the employer and issue the final account, to the contractor within sixty (60) working days of the date of practical completion

Ref Clause 6.7 [CD] – Clause 26.12

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A27.0 RECOVERY OF EXPENSE AND/OR LOSS

29 Clause 27.0

Replace Clause 27.1.2 with the following:
Interest due to late payment only

Replace Clause 27.1.4 with the following:
Interest due to late payment only

27.1.5 No Clause

Replace Clause 27.5 with the following:
Where the employer decides to recover an amount due in terms of 27.2 from a construction guarantee, cash deposit or retention money held as security, the employer shall issue a written demand to the contractor before recovering the amount. Should such amount not be paid to the employer within fourteen (14) calendar days of the date of notice by the employer, the employer may recover such an amount from the security

Add the following as Clause 27.6:
Where a provisional sequestration or provisional liquidation order has been granted or where an order has been granted which commences sequestration, liquidation, bankruptcy, receivership, winding-up or any similar effect, against the contractor or this agreement is cancelled in terms of 29, the employer may issue a demand to the guarantor in terms of the construction guarantee or advance payment guarantee held as security

F:..... V:.....
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SUSPENSION AND TERMINATION

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A28.0 SUSPENSION BY THE CONTRACTOR

30 Clause 28.0

28 No Clause
28.1 No Clause
28.1.1 No Clause
28.1.2 No Clause
28.1.3 No Clause
28.1.4 No Clause
28.1.5 No Clause
28.2 No Clause
28.3 No Clause
28.4 No Clause

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

Item

A29.0 TERMINATION

31 Clause 29.0

Add the following as Clause 29.1.4:

The contractor's estate has been sequestrated,
liquidated or surrendered in terms of the insolvency laws
in force within the Republic of South Africa

Add the following as Clause 29.1.5:

The contractor has engaged in corrupt or fraudulent
practices in competing for or in executing the contract
Add the following as Clause 29.1.6:

Honour his obligations in terms of Clauses 10.1.5.1.3,
11.4.1 and 12.2. sub Clauses 5, 6, 8, 9, 10, 11, 12, 13,
15, 16, 19, 20, 22.

Replace Clause 29.7 with the following:

The employer, on notice to the contractor, may recover
damages from the contractor from the date of
termination including, but not limited to, additional costs
incurred in the completion, consultant cost, rental of
alternative accommodation, invitation of completion
tenders, salaries of officials and safeguarding the site, of
the remaining work [25.3.7; 27.1.3]

Replace Clause 29.9 with the following:

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;

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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

29.14.1 No Clause

29.14.3 No Clause

29.14.4 No Clause

29.14.5 No Clause

29.14.6 No Clause

29.14.7 No Clause

29.15 No Clause

29.16 No Clause

29.17.3 No Clause

29.17.6 No Clause

29.21.5 No Clause

29.22 No Clause

29.23 No Clause

29.25.3 No Clause

29.25.4 No Clause

29.27 No Clause

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

T:.....

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A30.0 DISPUTE RESOLUTION

32 Clause 30.0

Replace Clause 30.2 with the following:

Where such disagreement is not resolved within ten (10) working days of receipt of such notice it shall be deemed to be a dispute and shall be submitted to Mediation as a first method of dispute resolution failing which the parties will resort to Litigation
30.3 to 30.7.7 No Clauses

Replace Clause 30.8 with the following:

The parties may, by agreement and at any time before Litigation, refer a dispute to mediation, in which event:
30.8.1 No Clause

Replace Clause 30.8.2 with the following:

The appointment of a mediator, the procedure, and the status of the outcome shall be agreed between the parties

Replace Clause 30.8.3 with the following:

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

Replace Clause 30.9 with the following:

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
30.10 No Clause
30.12 No Clause

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

T:.....

Item

SECTION B: GENERAL PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

33 B1.1 Definitions

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

T:.....

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34	B1.2 Interpretation F:..... V:..... T:.....	Item	
	<u>B2.0 DOCUMENTS</u>		
35	B2.1 Checking of documents F:..... V:..... T:.....	Item	
36	B2.2 Provisional bills of quantities F:..... V:..... T:.....	Item	
37	B2.3 Availability of construction information F:..... V:..... T:.....	Item	
38	B2.4 Ordering of materials and goods F:..... V:..... T:.....	Item	
	<u>B3.0 PREVIOUS WORK AND ADJOINING PROPERTIES</u>		
39	B3.1 Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
40	B3.2 Previous work - defects F:..... V:..... T:.....	Item	
41	B3.3 Inspection of adjoining properties F:..... V:..... T:.....	Item	
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B4.0 THE SITE

42 **B4.1 Handover of site in stages**

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

Item

43 **B4.2 Enclosure of the works**

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

Item

44 **B4.3 Geotechnical and other investigations**

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

Item

45 **B4.4 Encroachments**

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

Item

46 **B4.5 Existing premises occupied**

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

Item

47 **B4.6 Services - known**

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

Item

B5.0 MANAGEMENT OF CONTRACT

48 **B5.1 Management of the works**

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

Item

49 **B5.2 Progress meetings**

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

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50	B5.3 Technical meetings F:..... V:..... T:.....	Item		
	<u>B6.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS</u>			
51	B6.1 Samples of materials F:..... V:..... T:.....	Item		
52	B6.2 Workmanship samples F:..... V:..... T:.....	Item		
53	B6.3 Shop drawings F:..... V:..... T:.....	Item		
54	B6.4 Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
	<u>B7.0 DEPOSITS AND FEES</u>			
55	B7.1 Deposits and fees F:..... V:..... T:.....	Item		
	<u>B8.0 TEMPORARY SERVICES</u>			
56	B8.1 Water F:..... V:..... T:.....	Item		
57	B8.2 Electricity F:..... V:..... T:.....	Item		
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58	B8.3 Ablution and welfare facilities F:..... V:..... T:.....	Item		
59	B8.4 Communication facilities F:..... V:..... T:.....	Item		
	<u>B9.0 PRIME COST AMOUNTS</u>			
60	B9.1 Responsibility for prime cost amounts F:..... V:..... T:.....	Item		
	<u>B10.0 ATTENDANCE ON SUBCONTRACTORS</u>			
61	B10.1 General attendance 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		
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62	B10.2 Special attendance F:..... V:..... T:.....	Item		
	<u>B11.0 GENERAL</u>			
63	B11.1 Protection of the works F:..... V:..... T:.....	Item		
64	B11.2 Protection/isolation of existing works and works occupied in sections F:..... V:..... T:.....	Item		
65	B11.3 Security of the works F:..... V:..... T:.....	Item		
66	B11.4 Notice before covering work F:..... V:..... T:.....	Item		
67	B11.5 Disturbance 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		
68	B11.6 Environmental disturbance F:..... V:..... T:.....	Item		
69	B11.7 Works cleaning and clearing F:..... V:..... T:.....	Item		
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70 **B11.8 Vermin**

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

Item

71 **B11.9 Overhand work**

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

Item

72 **B11.10 Tenant installations**

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

Item

73 **B11.11 Advertising**

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

Item

SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

74 **C1.0 CONTRACT DRAWINGS**

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**

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75 **C2.0 PREAMBLES**

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** / lump sum document 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** / lump sum document

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Item

76 **C3.0 TRADE NAMES**

Wherever a trade name for any product has been described in the **bills of quantities** / lump sum document, 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

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77 **C4.0 IMPORTED MATERIALS AND EQUIPMENT**

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

78 **C5.0 VIEWING THE SITE IN SECURITY AREAS**

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

79 **C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS**

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

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80 **C7.0 ENTRANCE PERMITS TO SECURITY AREAS**

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

81 **C8.0 SECURITY CHECK OF PERSONNEL**

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**

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Item

82 **C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS**

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

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HIV/AIDS AWARENESS

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

83

C10.1 AWARENESS CHAMPION

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

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84 **C10.2 AWARENESS WORKSHOPS**

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

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

85 **C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.**

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:.....
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Item

86 **C10.4 ACCESS TO CONDOMS**

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

87 **C10.5 MONITORING**

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

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C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT

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 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

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C12.0 EMPLOYMENT AND TRAINING OF YOUTH WORKERS ON THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) INFRASTRUCTURE PROJECTS: NATIONAL YOUTH SERVICE (NYS)

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

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

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

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

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

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**C13.0 IMPLEMENTATION OF LABOUR-INTENSIVE
INFRASTRUCTURE PROJECTS UNDER THE
EXPANDED PUBLIC WORKS PROGRAMME (EPWP)**

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 labourintensive infrastructure project under the Expanded Public Works Programme (EPWP)

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)"

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

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BUILDING WORK

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ALTERATIONS (PROVISIONAL)

JBCC Work Group No. 102

SUPPLEMENTARY PREAMBLES

For Preambles see "PW371 - Specification of Materials and Methods to be used"

NOTE : All materials from demolitions are to be removed from site unless otherwise stated.

The whole of the old materials arising from the alterations shall become the property of the Contractor and shall be carted away from the site immediately as it becomes available.

REMOVAL OF EXISTING WORK

Break up and remove mass concrete

1	Surface beds and slabs	m3	26
2	Strip footings and foundations	m3	5
3	400 x 400mm Concrete slab paving blocks in pathways	m2	300
<u>Breaking up and removing reinforced concrete including cutting off and removing reinforcement</u>			
4	Stairs and landings	m3	12
5	Ramps	m3	8
6	100mm Thick surface bed	m3	18

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	<u>Breaking down and removing brickwork, etc.</u>				
7	Half brick walls	m2	1,537		
8	Half brick walls closing sides of bath	m2	5		
9	One brick walls	m2	336		
	<u>Breaking down and removing stone walls, etc</u>				
10	350mm Stone wall	m2	43		
	<u>OPENINGS THROUGH EXISTING WALLS, ETC</u>				
	<u>Create opening through stone walls</u>				
11	For new doors	m2	3		
	<u>Altering openings</u>				
12	Altering opening in one brick wall where 680 x 1 400mm high steel windows removed to form opening for new timber door and steel frame size 813 x 2 032mm high overall by breaking out brick work on one side and building up brickwork at side including necessary precast concrete lintel and making good plaster internally and face brickwork externally (new door and making good paintwork elsewhere)	No	2		
	<u>Taking out and removing doors, windows, etc. from brickwork to be demolished</u>				
13	Glazed steel window not exceeding 2,5m ²	No	240		
14	Timber single door size 813 x 2 032mm high with steel frame from half brick wall	No	2		
	<u>Taking out and removing doors, windows, etc. including thresholds, sills, etc. from brickwork to remain (building up or altering openings elsewhere)</u>				
15	Glazed steel window not exceeding 2,5m ² from one brick wall	No	2		
16	Glazed steel window exceeding 2,5m ² and not exceeding 5m ²	No	1,357		
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17	Timber single door size 813 x 2 032mm high with steel frame from half brick wall	No	235		
18	Timber single door size 813 x 2 032mm high with steel frame from one brick wall	No	13		
19	Timber single door size 813 x 2 032mm high from frame to receive new timber door (new door measured elsewhere)	No	277		
20	Timber single door size 762 x 2 032mm high form frame to receive new timber door (new door measured elsewhere)	No			
21	Timber single door size 711 x 1 957mm high form frame to receive new timber door (new door measured elsewhere)	No			
22	Timber double size 1 611 x 2 032mm high with steel frame from one brick wall	No	10		
23	Aluminium double door in rubble stone wall opening size 3 500 x 2 100mm high overall including all framework, etc.	No	1		
24	Service hatch including sill & internal worktop	No	1		
25	Flip-up type steel garage door	No	12		
26	Mesh screen walls between garage parking size 6 000 x 2 700mm high	No	10		
27	Steel double gate size 2 400 x 2 700mm high and prepare framework to receive new gate	No	2		
	<u>Take out and remove built in cupboard with timber doors, steel frames, shelves, cleats, bearers, shelving and steel hanging rods from brickwork.(new measured elsewhere)</u>				
28	Timber built in cupboard exceeding 2,5m ² and not exceeding 5,0m ²	No	2		
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.

29	Fibre glass roofing membrane including screed from concrete roof to remain to receive new screed & waterproofing (Roof height 13,5 m above ground level)	m2	1,634
30	Gypsum plasterboard ceilings with timber cornices including timber brandering, etc.	m2	623
31	Tongued and grooved timber ceilings including cornices, timber brandering, etc.	m2	395
32	Tongued and grooved timber ceilings from brandering to remain, including prepare surface to receive new (elsewhere measured).	m2	167
33	Acoustic tile suspended ceiling panels from suspension grid to remain (elsewhere measured)	m2	1,571
34	Timber partitioning including framework, including doors, ironmongery, windows, etc.	m2	369

Taking down and removing sundry joinery work

35	Timber wall panelling above rubble stone walling	m2	10
36	Timber skirting with quadrant bead from brickwork	m	3,760
37	Timber pelmet with curtain track	m	288
38	Timber cupboard shelving size 600mm wide x 800mm high x 400mm deep to dormitories and make good plastering to walls	No	132

Taking out and removing joinery fittings, kitchen units, etc.

39	Timber shelves 300mm wide with timber brackets fixed to brickwork	m	90
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Taking out and removing ironmongery

40	Carefully remove vinyl stair handrail cover from steel handrails to stairs to receive new (new cover elsewhere measured)	m	692
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41	Vertical louvred blinds including making good to plaster and prepare to receive new (elsewhere measured)	m2	240
42	Mortice lock and furniture from timber door and steel frame	No	230
43	Chromium plated cupboard lock, escutcheon and keep	No	230
44	Timber backing 500mm long including holder bracket for fire extinguisher plugged to brick wall	No	65
45	Nameplate with numerals fixed to steel door frames	No	143
46	Emergency signs fixed to brickwork	No	88
47	Towel rails including making good to brickwork	No	110
48	Shower curtain rail 1 000mm long	No	21
49	Stainless steel toilet roll holder	No	33
50	Rubber doorstep screwed into floor finish	No	230
<u>Taking out/off and removing sundry metalwork</u>			
51	Steel security gate approximately 1 600 x 2 100mm high bolted to brickwork	No	8
52	Steel floor drain from floor and taking care not to damage existing kitchen tiles	m	51
53	Steel trox grilles from steel framework in dormitories and make steel frame good for receiving of new aluminium trox grilles	No	144
<u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc.</u>			
54	32mm Granolithic from floors	m2	95
55	32mm Granolithic from floors to falls	m2	15
56	50mm Granolithic from floors to falls in communal showers	m2	40

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57	Internal cement plaster from walls and columns	m2	88
58	External cement plaster from walls, columns and beams	m2	258
59	12mm Thick granolithic skirting 75mm high with coving at junction of floor and wall	m	45
<u>Carefully taking out/off and setting aside metalwork for re-use (elsewhere measured)</u>			
<u>Existing Carports</u>			
60	Carefully disconnect steel purlins from steel frame work and set aside for re-use (Roof covering removed elsewhere)	m	255
61	Carefully disconnect steel beams from steel columns and set aside for re-use	m	133
62	Remove steel columns including concrete footing	No	36
<u>Existing Stores</u>			
63	Carefully disconnect steel purlins from steel frame work and set aside for re-use (Roof covering removed elsewhere)	m	130
64	Carefully disconnect steel beams from steel columns and set aside for re-use	m	67
65	Remove steel columns including concrete footing	No	18
<u>Taking up and removing vinyl floor coverings, carpeting, etc.</u>			
66	Vinyl sheet floor covering	m2	18
67	Vinyl tile floor covering	m2	3,938
68	Vinyl skirting 75mm high from walls	m	705
69	Carpet tile floor covering including preparing screed for new floor finish	m2	250

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	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surface bed for new screed plaster or tile finishes</u>				
70	300 x 300mm Terrazzo tiles to floors	m2	296		
71	300 x 300mm Porcelain tiles to floors	m2			
72	152 x 152mm Tiles to walls	m2	2,265		
73	Ceramic soap dish built into wall	No	6		
74	Ceramic toilet roll holder built into wall	No	37		
	<u>Take out and removing sanitary fittings, etc. including disconnecting piping from fittings and stopping off of services</u>				
75	Enamel glazed pressed steel bath tub	No	3		
76	Stainless steel double bowl sink 1 500mm on and including steel cupboard underneath with four doors and two drawers with rubber P trap, etc. including stopping off of services	No	1		
77	Stainless steel double bowl sink 1 800mm on and including steel cupboard underneath with four doors and two drawers with rubber Pt rap, etc. including stopping off of services	No	2		
78	Stainless steel single bowl wash trough 650mm on brackets with rubber P-traps, etc. including stopping off of services	No	1		
79	Vitreous china double bowl wash trough 1 030mm on brackets with rubber P-traps, etc. including stopping off of services	No	2		
80	Vitreous china single wash hand basin on steel frame with two chromium plated pillar taps, P-trap, service pipes, etc. including stopping off of services	No	55		
81	Vitreous china WC pan with cistern complete with taps, outlets, connecting pipes, etc. including stopping off of services	No	40		
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82	Vitreous china wall hung urinal and flush valve	No	23		
83	Fire hose reel complete including stopping off of services	No	18		
	<u>Take out and remove waste piping, etc. including disconnecting piping from fittings and making good brickwork</u>				
84	50mm Galvanized steel piping including fittings and brackets	m	507		
85	40mm uPVC piping including fittings and brackets	m	507		
86	110mm Cast iron piping including fittings and brackets	m	255		
	<u>Take out and remove water piping, taps, etc. including disconnecting piping from fittings and making good brick wall</u>				
87	15mm Galvanized steel piping including fittings and brackets	m	507		
88	20mm Galvanized steel piping including fittings and brackets	m	775		
89	15mm Copper piping including fittings and brackets	m	507		
90	22mm Copper piping including fittings and brackets	m	255		
91	Shower head, including stopping off of services	No	25		
92	15mm Stop cock, including stopping off of services	No	544		
93	15mm Chromium plated under wall stopcocks, including stopping off of services	No	44		
94	15mm Chromium plated bib taps, including stopping off of services	No	18		
95	20mm Chromium plated bib taps, including stopping off of services	No	12		
96	15mm Chromium plated pillar cock from existing vitreous china basin, including stopping off of services	No	18		
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97	15mm Chromium plated sink mixer with swivel overarm outlet, including stopping off of services	No	4
<u>Take out and remove electrical water heater in geyser room, etc. including disconnecting piping from fittings, etc.</u>			
98	150 Litre high pressure water heater, including stopping off of services	No	10
99	450 Litre high pressure water heater, including stopping off of services	No	2
<u>CUTTING THROUGH FLOORS AND CEILINGS</u>			
100	Cutting through 100mm thick concrete surface bed for trenching for piping not exceeding 150mm wide, including making good concrete	m	28
101	Cutting through 100mm thick concrete surface bed for 500mm wide concrete wall footing including making good concrete on both sides of new half brick wall	m	38
102	Cutting through 100mm thick concrete surface bed for 700mm wide concrete wall footing including making good concrete on both sides of new one brick wall	m	20
<u>BUILDING UP OPENINGS</u>			
<u>Brickwork in NFP bricks in cement mortar in building up</u>			
103	Half brick walls	m2	372
104	One brick walls	m2	176
105	285mm Walls	m2	1,286
<u>Sundries</u>			
105	Cutting toothings and bonding new brickwork to existing	m2	52
<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
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**NEWCASTLE: REPAIR AND RENOVATIONS TO
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<u>Preparation to existing vertical surfaces</u>			
107	Hack face of existing internal and external plastered and painted walls to receive new plaster (plaster elsewhere)	m2	345
108	Scrub down all stone walls and seal with an approved brick sealer	m2	254
109	Scrub down all brick walls and fill mortar joints where necessary	m2	16,641
<u>Preparation to existing horizontal surfaces</u>			
110	Clean existing concrete floor slabs using a water pressure cleaning system and steel brushes and remove all dirt and loose particles.	m2	135
111	Make good defects in existing floor screed with 'Pavelite', including preparing existing screed by removing all spalled material and scrubbing floors to remove all trace of foreign matter.	m2	271
112	Make good defects in existing grano skirting	m	36
<u>Making good Tounge & Grooved timber ceilings and brandering</u>			
113	Ceilings in small areas	m2	673
<u>REMOVAL OF EXISTING ROOF COVERINGS</u>			
<u>Temporary roof protection, etc. including removal</u>			
<u>Contractors will be held responsible for all damage, however caused, to ceilings, finishes, etc inside rooms where the existing roof coverings have been removed and he must make good all damage at his own expense to the approval of the Employer</u>			
114	Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Employer and make good all work damaged or disturbed after completion	m2	105
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<u>Taking down and removing pitched roof not exceeding 50° complete with ridge and hip cappings, fittings, flashings, etc</u>					
115	Corrugated mild steel roof sheeting, ridge and hip cappings, gable and verge flashings and timber purlins	m2	1,305		
116	Grass thatching complete to exposed steel roof structure	m2	298		
117	Profiled or corrugated metal roof sheeting from purlins to remain	m2	105		
<u>Sundries</u>					
118	Cut into existing roof covering to receive new roof covering and timber trusses including cutting and altering of existing timber trusses	m2	105		
<u>REMOVAL OF EXISTING ROOF COVERINGS SUNDRIES</u>					
<u>Taking down and removing sundry roof items</u>					
119	Take out and remove roofing drive screws or hook bolts and replace with new heavy duty, hot dipped Galvanized fixings with self sealing polypropylene washers and seals (approximately 7 fixings per square metre of roofing)	m2	105		
120	Flashing strip approximately 500mm girth at junction of roofs and parapet walls and repair plaster or brickwork pointing	m	28		
121	50 x 76mm Timber purlins	m	64		
122	Cut out and remove rotten timber sprockets, including cutting back into brickwork to allow for joining with new (elsewhere measured)	m	24		
<u>PREPARATORY WORK TO SUNDRY JOINERY WORK</u>					
<u>General Notes</u>					
All surfaces to be perfectly dry & in a fit state to receive paint before any application commences					
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	<u>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks or crevices shall be primed, filled with suitable filler and finished smooth</u>				
123	Timber doors	m2	280		
124	On built-in cupboards	m2	498		
125	Skirtings and mouldings not exceeding 300mm girth	m	88		
	<u>Frame to be sanded smooth. Touch up red oxide and apply new paint (paint measured elsewhere)</u>				
126	<u>Make good of existing 1.6mm rebated mild steel door frames</u>	m2	131		
	<u>REFIXING OF IRONMONGERY PREVIOUSLY SET ASIDE FOR RE-USE</u>				
	<u>Refixing of ironmongery, lockers, letters, nameplates, etc</u>				
127	Perspex sign board	No	15		
128	Fit new striker plate to metal door frame	No	230		
129	Fit set of two new chromium plated lever handles to existing door lock	No	48		
	<u>SERVICING OF EXISTING IRONMONGERY</u>				
130	Service existing mortice lock, oil and ease furniture and lock, replace missing keys and refix with matching screws including re-setting strike plate	No	12		
131	Service of existing vinyl folding door including lock mechanism, oil and ease furniture and lock	No	1		
	<u>MAKING GOOD OF FINISHES, ETC.</u>				
132	Make good brick wall where pipe, not exceeding 150mm diameter, was removed including matching face brickwork or plasterwork	No	190		
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<u>Making good existing kitchen tiles</u>		
Existing floor tiles to be scrubbed down and decreased and all tile grouting to be filled and cleaned	m2	153
Ditto to existing tiled skirting	m	48
<u>SERVICING OF EXISTING METALWORK</u>		
<u>Service existing steel windows</u>		
Overhaul, adjust and service to ensure proper operation	No	91
Extra on servicing existing steel window sash for supply and fitting new handle	No	91
Extra on servicing existing steel window sash for supply and fitting sliding stay	No	91
Extra on servicing existing steel window sash for supply and fitting new flyscreen over openings	No	61
<u>Service existing steel dormitory working stations</u>		
Overhaul, adjust and service to ensure proper operation	No	288
Extra on servicing existing working stations for supply and fitting new handle for drawer	No	288
Extra on servicing existing working stations for supply and fitting door hinges	No	1,152
Extra on servicing existing working stations for supply and fitting new catches	No	576
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REMOVAL OF EXISTING GLAZING

Taking out and removing glass and mirrors

143	Glass from steel windows including cleaning out rebates and preparing for new glass (elsewhere measured)	m2	14
144	Rake out glazing putty, prepare rebates and re-putty	m	162

**REFIXING OF METALWORK PREVIOUSLY SET
ASIDE FOR RE-USE**

Refixing of steel beams and purlins

145	Steel beams to new steel column (connectors and cleats elsewhere measured)	m	385
146	Steel purlins to existing steel beam (connectors and cleats elsewhere measured)	m	200

PREVIOUSLY PAINTED SURFACES

General Notes:

All surfaces to be perfectly dry & in a fit state to receive paint before any application commences

ON PLASTER

Wash down, remove all loose & flaking paint, rake out all cracks & crevices and fill approved flexible acrylic sealant, spot prime and rub down to even surface to receive new paint

147	On internal plastered walls	m2	12,682
148	On external plastered walls	m2	1,109

Wash down with sugar soap, prepare, for paint to

149	On concrete ceilings	m2	1,982
150	On external concrete columns	m2	83
151	On internal fibre cement ceilings	m2	572
152	On external fibre cement sills	m	137

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ON METAL

Prepare, removing all rust to bright metal, spot priming bare metal surfaces with zinchromate primer to receive new paint on

153	On door frames	m2	400
154	Doors	m2	24
155	On windows with burglar proofing	m2	95
156	On gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m2	59
157	To steel columns, purlins, etc. of undercover parking	m2	715
158	Pipes not exceeding 50mm diameter	m	185

Clean existing roof covering using a high pressure water cleaning system and steel brushes removing all loose paint, spawl and deleterious matter

159	Corrugated sheet metal roof sheeting	m2	48
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ON WOOD

Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks or crevices shall be primed, filled with suitable filler and finished smooth

160	Door	m2	64
161	Door frames	m2	66
162	On built-in cupboards	m2	1,560
163	On tongued and grooved ceilings	m2	167
164	Skirting and quadrant bead not exceeding 300mm girth	m	75

ON FACE BRICKS

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**NEWCASTLE: REPAIR AND RENOVATIONS TO
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Pressure clean to remove all dirt, algae, etc., point
and fill joints where necessary

165	On face bricks	m2	3,736
166	On rubble stone brick wall	m2	377

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<u>EARTHWORKS (Provisional)</u>			
JBCC Work Group No. 104			
<u>SUPPLEMENTARY PREAMBLES</u>			
For Preambles see "PW371 - Specification of Materials and Methods to be used"			

<u>Carting away of excavated material</u>			
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.			

<u>EXCAVATION, ETC.</u>			
<u>Excavation in earth not exceeding 2 m deep</u>			
1	Reduced levels under floors	m3	37
2	Trenches	m3	116
3	Holes	m3	73
<u>Extra over excavations in earth for</u>			
4	Intermediate excavation	m3	15
5	Hard rock excavation	m3	5
6	Class A boulder excavation	m3	10
7	Class B boulder excavation	m3	5
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**NEWCASTLE: REPAIR AND RENOVATIONS TO
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<u>Extra over trench and hole excavations in earth for excavation in</u>				
8	Brickwork	m3	5	
9	Unreinforced concrete	m3	9	
<u>Extra over all excavations for carting away</u>				
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	169	
<u>Risk of collapse of excavations</u>				
11	Sides of trench and hole excavations not exceeding 1,5 m deep	m2	786	
<u>Keeping excavations free of water</u>				
12	Keeping excavations free of water		Item	
<u>FILLING, ETC</u>				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
13	Backfilling to trenches, bases and around foundation walls	m3	42	
<u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density</u>				
14	Backfilling to trenches, bases and around foundation walls	m3	75	
15	Under floors, steps, pavings, etc.	m3	146	
<u>50 mm Coarse river sand filling</u>				
16	Under floors, steps, pavings, etc.	m3	9	
<u>Garden soil filling supplied by the contractor</u>				
17	In flower boxes	m3	65	
18	Over site	m3	110	
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SOIL POISONING

Soil insecticide

21	Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc. and filling in furrows and ramming	m2	248
22	To bottoms and sides of trenches, etc.	m2	543

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<u>BILL NUMBER 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For Preambles see "PW371 - Specification of Materials and Methods to be used"			

<u>CONCRETE</u>			
JBCC Work Group No. 110			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15 Mpa/19mm Concrete</u>			
1	Blinding	m3	20
<u>20 MPa/19mm Concrete</u>			
2	Raised pedestals, plinths, etc.	m3	15
3	Steps, ramps, etc.	m3	33
4	Column bases	m3	41
5	Slabs, beams and inverted beams	m3	3
<u>REINFORCED CONCRETE</u>			
<u>25 MPa/19mm Concrete poured around reinforcement</u>			
6	Strip footings	m3	91
7	Ground Beams	m3	22
8	Surface beds cast in panels to falls	m3	38
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NEWCASTLE: REPAIR AND RENOVATIONS TO DECENTRALISED TRAINING FACILITY FOR SAPS

9	Aprons	m3	0.3
10	Columns	m3	38
11	Stairs and landings	m3	11
12	Slabs, beams, and inverted beams	m3	61
13	Stub columns	m3	4
<u>30 Mpa/19mm Concrete poured around reinforcement:</u>			
14	Plinths	m3	
<u>TEST BLOCKS</u>			
15	Making and testing set of three 150 x 150 x 150 mm concrete strength test cube (Provisional)	Sets	14
<u>CONCRETE SUNDRIES</u>			
16	Form or drill mortice in concrete for dust proof keep	No	15
<u>Finishing surfaces of concrete smooth with a wood float</u>			
17	Wood float top of concrete surface bed, etc.	m2	15
18	Wood float top of concrete surface to falls and cross falls	m2	183
19	Finish top surfaces of concrete ramp to an evenly ribbed non slip surface	m2	65
<u>GENERAL FORMWORK</u>			
<u>Formwork to sides</u>			
20	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	286
<u>SMOOTH (CLASS F2) FORMWORK</u>			
<u>Smooth formwork to</u>			
21	Beams not exceeding 3.5m high	m2	124
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22	Beams exceeding 3.5m and not exceeding 5m high	m2	41
23	To Ground beams	m2	82
24	Columns not exceeding 3.5m high	m2	109
25	Columns exceeding 3.5m and not exceeding 5m high	m2	76
26	Sides of 300mm diameter round columns	m2	192
27	Sides of stub columns	m2	56
28	Soffit of slabs	m2	51
29	Soffits of landing slabs	m2	24
30	Raking and sloping soffits of stairs	m2	45
31	Riser edge of stairs not exceeding 300mm high	m	88
32	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	64
<u>Rough formwork to sides and soffits of</u>			
33	Slab propped up not exceeding 3.5m	m2	
34	Sides of grounds beams	m2	24
<u>MOVEMENT JOINTS, ETC.</u>			
<u>"Genesis" or other approved MSR jointing strip</u>			
35	10mm Jointing strip in expansion joint	m	42
<u>Slip joints</u>			
36	3mm Malthoid sheets to form slip joint in horizontal concrete roof slab not exceeding 300mm high with and including 190mm wide Butyl Bandage above joint	m	42

REINFORCEMENT

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**NEWCASTLE: REPAIR AND RENOVATIONS TO
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Fabric reinforcement

37	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	172
38	Type 395 fabric reinforcement in brick walls to strong rooms	m2	122

Mild steel reinforcement

39	8-16mm Diameter bars	t	13.44
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High tensile steel reinforcement

40	8 - 20mm Diameter bars	t	24.51
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**NEWCASTLE: REPAIR AND RENOVATIONS TO
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BRICKWORK IN SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

6	Half brick walls	m2	1,116
7	Half brick wall in beamfilling	m2	83
8	One brick walls	m2	48
9	230mm Wall	m2	1,716
10	240mm Wall	m2	108
11	270mm Wall	m2	91
12	285mm Wall	m2	435
13	One brick walls with fabric reinforcement between layers (reinforcement measured elsewhere)	m2	122
14	One brick walls circular on plan	m2	23
15	Half brick kerb one courses high to shower floor	m	25

BRICKWORK SUNDRIES

Sundries

16	Fair raking cutting to brickwork	m	44
17	Fair raking cutting face brickwork	m	44
18	Bed wall plate in (1:3) cement mortar	m	355

Brick reinforcement

19	75mm Wide reinforcement built in horizontally	m	3,281
20	150mm Wide reinforcement built in horizontally	m	10,760

**Fire arm hatch as supplied by SA Bullet Resistant
Glass Co.(Pty) Ltd. (Tel. 011-493 6663/4)**

21	Transaction drawer TD 700 as hatch for passing through fire arms built in one brick wall	No	1.00
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**NEWCASTLE: REPAIR AND RENOVATIONS TO
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PRESTRESSED, PRECAST CONCRETE LINTOLS

"Stalton" pre-stressed fabricated lintels

22	110 x 75mm Lintels in lengths not exceeding 3m	m	401
23	110 x 75mm Lintels in lengths exceeding 3m	m	345

Galvanised hoop iron cramps, ties, etc.

24	30 x 1.6mm Roof tie 1 500mm long with one end built 6 courses into brickwork and other end wrapped around and spiked to timber rafters	No	162
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Air bricks (provisional)

25	229 x 152mm Terracotta vermin proofed air brick built into one brick wall, including. forming opening and rendering all round in cement mortar	No	52
26	229 x 152mm Gypsum plaster plain pattern internal air brick ventilator	No	144

FACE BRICKWORK

Face @ R 3'500.00/1000 excl. vat delivered on site or other approved external face bricks to match existing, pointed with recessed horizontal and vertical joints

27	Extra over ordinary brickwork for facing in stretcher bond	m2	521
28	Ditto, in beamfilling	m2	15
29	Brick-on-edge header course lintel 220mm wide on soffit built fair and pointed on one side and soffit and including cutting and fitting between reveals	m	15
30	Brick-on-edge header course coping to top of one brick wall, built fair and pointed on top and both edges	m	62
31	Brick-on-edge header course layed between concrete surface bed panels pointed on top	m	256

NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS

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Natural grey sills in single lengths bedded in class I
mortar including metal fixing lugs etc

32	15 x 150mm Wide sills	m	643		
33	15 x 200mm Wide sills set sloping and slightly projecting	m	585		

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QUARRY TILE SILLS

Clay quarry tiles to match existing bed on and including 3:1 cement mortar with pointed horizontal and vertical joints.

34	152 x 152 x 16mm Thick bull-nosed quarry tile sills, set sloping and slightly projecting on brickwork, including fair raking cutting to brickwork under	m	435
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COBBLE PAVING (Provisional)

"Bastille Cobbles" paving in patterns as per architects approval (Colour as per architect's specification)

35	Paving laid on and including 20mm river sand	m2	203
36	Edging to cobble paving on 50mm thick mortar bed	m	165

RUBBLE STONE WALLS

Rubble stone walls of un-coursed random local stone to the principal agent's approval, including facing and pointing on both sides

37	330mm Walls circular on plan	m2	30
38	330mm Walls	m2	15
39	330mm Walls in beamfilling	m2	10
<u>Facing and pointing</u>			
40	To tops, ends and reveals of walls	m2	7

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<u>BILL NUMBER 5</u>			
<u>WATERPROOFING</u>			
JBCC Work Group No. 120			
<u>SUPPLEMENTARY PREAMBLES</u>			
For Preambles see "PW371 - Specification of Materials and Methods to be used"			

<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
<u>One layer of 375 micron "Consol Plastics Brikrip DPC" embossed damp proof course</u>			
1	In walls	m2	265
2	Below window sills	m2	419
<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
3	Under surface beds	m2	269
<u>Coprox decorative waterproof cement wall coating</u>			
4	On walls in patches	m2	1,038
<u>WATERPROOFING TO ROOFS</u>			
<u>"Sika Sealoflex Professional " Flexible Acrylic based Waterproofing System containing special fibre reinforcement applied strictly to manufacturer's specifications</u>			
5	On sloping roofs	m2	1,634
6	On tops and sides of inverted beams	m2	280
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<u>BILL NUMBER 6</u>			
<u>ROOF COVERINGS, ETC.</u>			
JBCC Work Group No. 122			
<u>SUPPLEMENTARY PREAMBLES</u>			
For Preambles see "PW371 - Specification of Materials and Methods to be used"			
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
<u>0.80mm Safintra "SAFLOK 700" or equal and approved complete with ridge cappings, fixing brackets and polyclosers, with 10No.16 x 16mm long selfdrilling wafer head PH2 screws, No. 3 drill pointfasteners, all in accordance with the manufacturer's specifications.</u>			
1	Roof covering with pitch not exceeding 50° degrees	m2	1,310
2	Roof covering with coved pitch as per architects details attached to this bills of quantities	m2	186
3	Ridge capping 460mm girth	m	30
4	Hip capping 460mm girth	m	18
5	Cover flashing 100mm girth	m	24
6	Sidewall flashing 308mm girth	m	24
7	Headwall flashing 308mm girth	m	24
8	Gable trim 308mm girth	m	26
9	Raking cutting and waste to roof sheeting	m	18
10	Broad flute ridge polyclosers	m	220
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11	Serrated metal closer	m	220
			R

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ROOF AND WALL INSULATION

"Sisalation 420" heavy industrial grade aluminium foil based insulation

- | | | | |
|----|--|----|-------|
| 12 | Insulation laid taut over steel purlins (at approximately 1 200mm centres) and fixed concurrent with roof covering including 1,6mm galvanised steel straining wires at 400mm centres | m2 | 1,305 |
|----|--|----|-------|

THATCH

User note

Grass in the Gauteng area suitable for thatch is the hyparrhenia species and is obtainable in lengths varying from 760 to 1 020mm

The minimum density to which the above mentioned grass should be compacted is 30kg/m²/150mm thickness

The fibre blanket usually consists of an interlay or an underlay of multi-layered fire-retardent reinforced double-sided aluminium foil sheeting

150mm Thick thatch of hand cut grass of the hyparrhenia? species in lengths varying from 760 to 1 020mm laid in bundles of suitable size, compacted to a minimum density of 30kg/m²/150 mm thickness and fixed by means of suitable fixing rods interlaced through and over the bundles at not exceeding 600mm centres and secured with tarred twine to and including eucalyptus battens CCA treated in accordance with SANS 457-2, varying in diameter from 20 to 40mm, spaced at maximum 300mm centres generally and at closer centres nearer to eaves, including a fire-retardent interlay of multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 272g/m² and a Class I fire rating in accordance with SANS 0177-3

- | | | | |
|----|---|----|-----|
| 13 | Covering to general roof slopes including a spread layer to exposed soffit | m2 | 298 |
| 14 | Extra over roof covering for finishing off edges smooth and with straight cut | m | 58 |

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15	Concrete ridge coping circular on plan as per architects details
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METAL CONNECTOR PLATES

The metal connector plates shall be manufactured out of 1,0mm or 2,0mm drawn quality galvanized steel.

The steel shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 MPa. The corrosion resisting coating shall be 0.38 kg/m² commercial class hot dip galvanized before stamping.

The connector plate shall be capable of transmitting the forces between the members of a truss without exceeding the design stresses set out in the table below:

Design values shall have been derived by National Timber Research Institute of the CSIR for SA Pine and shall not be less than:

Values at 0° angle between load and plate axis and between load and grain:

1,0 mm plate	2,00 MPa
2,0 mm plate	2,30 MPa

Value at 90° angle between load and plate axis and between load and grain:

1,0 mm plate	1,10 MPa
2,0 mm plate	0,90 MPa

For pairs of plates in Newtons per lineal millimetre:

	1,0 mm Newton/mm	2,0 mm Newton/mm
<i>Tension parallel to plate axis</i>	220	400
<i>Tension perpendicular to plate axis</i>	110	230
<i>Shear parallel or per- pendicular to plate axis</i>	80	160

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TRUSS CONNECTION

The trusses shall be constructed with jigs specially designed to provide correct cambers and pitches.

All joints are to be close fitted butt joints and made by precision pressing of the metal connector plate into each side of the joint.

GENERAL

TRUSS LOADING

The trusses have to be designed for a live load of 0,50kN/m².

The dead load of the trusses shall be to accommodate concrete roof tiles on 38 mm x 38mm SA Pine battens, a gypsum and/or fibre cement board ceiling nailed on 38 x 38mm brandering at 450mm centres in both directions and 75mm insulation wool.

TRUSS DESIGN

All trusses shall be designed by a Registered Professional Engineer (in accordance with the SABS Code of Practices for the Design of Timber Structures).

TRUSS SPACING

The truss centres shall be as described in the Bills of Quantities for each respective truss type, or such other truss centres specified on the engineer's or fabricator's drawings.

TRUSS PITCH

The truss pitch shall be as described in the Bills of Quantities for each respective truss type.

Sawn South African Softwood

1	38 x 76mm Wind bracing in lengths not exceeding 2,4m	m	57
2	38 x 114mm Wall plates	m	148
3	38 x 114mm Bolted roof truss members not exceeding 2,4m	m	756

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4	38 x 114mm Bolted roof truss members exceeding 2,4m and not exceeding 3,9 m	m	616
5	38 x 114mm Bolted roof truss members exceeding 3,9m and not exceeding 6,6 m	m	777
6	38 x 114mm Bolted roof truss members in lengths exceeding 6,6m	m	37
7	50 x 76mm Purlins	m	545
8	76 x 76mm Splayed purlins (Provisional)	m	89
9	38 x 114mm Wall plates	m	355
10	38 x 38mm Battens	m	676
<u>Sundries</u>			
11	Three coats carbolineum on sawn timbers (Provisional)	m2	545
12	Teco two way hurricane clips	No	1,055
<u>EAVES, VERGES, ETC</u>			
<u>"Everite Flexit" medium density pressed nutec-cement (Product no. 041-202)</u>			
13	12 x 225mm Fascias and barge boards including aluminium H-profile jointing strips (strips product no. 685-195)	m	344
<u>SKIRTINGS</u>			
<u>Wrought meranti</u>			
14	19 x 70mm Skirting with 19mm quadrant bead planted on	m	4,023
<u>CORNICES</u>			
<u>Wrought meranti</u>			
15	19 x 75mm Cornice with bottom edge slightly rounded with 19mm quadrant bead planted on	m	313

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**NEWCASTLE: REPAIR AND RENOVATIONS TO
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TIMBER DOORS, ETC.

**Semi-solid flush panel door with commercial veneer
hung to steel or timber frames**

16	40mm Door 450 x 2032mm high	No	4
17	40mm Door 711 x 1 957mm high	No	48
18	40mm Door 762 x 2 032mm high	No	84
19	40mm Door 813 x 2 032mm high	No	356
20	40mm Door 813 x 1 957mm high	No	8
21	40mm Door 900 x 2 032mm high	No	16

**Hollow-core flush door with commercial veneer
hung to steel frame**

22	40mm Thick hollow core door suitable for paint finish both sides, size 813 x 2 032mm high	No	95
23	40mm Thick hollow core door suitable for paint finish both sides, size 762 x 1 957mm high	No	8

**Wrought meranti framed, ledged and braced batten
doors with hardwood veneer back panel on inside
hung to steel or timber frames**

24	40mm Thick framed ledged and braced batten door, size 735 x 2 032mm (See door type DLA)	No	4
25	Ditto size 720 x 2 032mm high	No	2
26	Ditto size 762 x 2 032mm high	No	20
27	Ditto size 810 x 2 032mm	No	1
28	Ditto size 813 x 2032mm high	No	11
29	Ditto size 615 x 2 032mm	No	6
30	Ditto size 813 x 2 032mm	No	73

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**NEWCASTLE: REPAIR AND RENOVATIONS TO
DECENTRALISED TRAINING FACILITY FOR SAPS**

31 40mm Thick framed ledged and braced batten double
door size 1 270 x 2 032mm high

No

4

32 Ditto size 1 511 x 2 032mm high

No

4

33 Ditto size 1 660 x 2 032mm high

No

4

Pelican fire door

34 40mm Door with overall size 1 450 x 2 064mm high

No

Carried to Collection

R

Section No. 2
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Carpentry and Joinery
**RUBIQUANT
QUANTITY SURVEYORS**

**NEWCASTLE: REPAIR AND RENOVATIONS TO
DECENTRALISED TRAINING FACILITY FOR SAPS**

FRAMES, BEADS, ARCHITRAVES, ETC.

Wrot meranti

35	75 x 75mm Rebated framed frame	m	73		
36	44 x 75mm Rebated splayed and grooved weather boards including grooves in and fixing to doors with brass screws	m	48		

BUILT-IN CUPBOARDS

37	Allow the Provisional Sum of R 450 000,00 (Four Hundred and Fifty Thousand Rand) for the built in cupboards in the dormitories & kitchens	Item		450,000.00	
38	Allow for profit	Item			
39	Allow for general attendance on specialist executing the work	Item			

THE FOLLOWING IN WORKTOPS, COUNTERS, ETC.

40	Allow the Provisional Sum of R 200 000,00 (Two Hundred Thousand Rand) for the counters in the entrance, offices, etc.	Item		200,000.00	
41	Allow for profit	Item			
42	Allow for general attendance on specialist executing the work	Item			

THE FOLLOWING IN RIFLE RACKS, SHELVING, ETC.

43	Allow the Provisional Sum of R 300 000,00 (Three Hundred Thousand Rand) for the rifle racks & shelving in the strong rooms / Fire arm stores, etc.	Item		300,000.00	
44	Allow for profit	Item			
45	Allow for general attendance on specialist executing the work	Item			

Carried to Collection

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**RUBIQUANT
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NEWCASTLE: REPAIR AND RENOVATIONS TO
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COLLECTION

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RUBIQUANT

QUANTITY SURVEYORS

**NEWCASTLE: REPAIR AND RENOVATIONS TO
DECENTRALISED TRAINING FACILITY FOR SAPS**

**Item
No**

Quantity

Rate

Amount

**SECTION NO. 2 BILL NO. 8 CEILINGS, PARTITIONS
AND ACCESS FLOORING**

BILL NUMBER 8

CEILINGS, PARTITIONS AND ACCESS FLOORING

JBCC Work Group No. 128

SUPPLEMENTARY PREAMBLES

For Preambles see "PW371 - Specification of Materials
and Methods to be used"

SUSPENDED CEILINGS

Electrical light fittings, diffusers, panels, etc. generally
are "lay in" units of the same dimensions as the
suspension grid described and allowance must be made
according for their support inclusive of any flexibility in
setting out that may be required (ceiling panels have not
been deducted and pricing is to take cognizance
thereof).

**450mm Wide x 1 200mm long x 9mm thick Everite
embossed white boards (Code 366-412) with 25mm
thermoclاد Polystyrene backing in suspended
ceiling panels on exposed tee suspension system
including main and cross sections, hold down clips,
hangers and angles, grids complete, installed
strictly to manufacturer's specifications. Colour of
tees as per Architect's choice**

1 To ceiling suspended not exceeding 1m below concrete
soffits in existing grid system

m2 158

2 Extra over ceiling for forming trap door size 600 x
600mm (Provisional)

No 5

3 20 x 30mm "LSM25" Recessed wall angle with colour
and finish to Architect's approval

m 232

Carried to Collection

Section No. 2

Bill No. 8

Ceilings, Partitions and Access Flooring

RUBIQUANT

QUANTITY SURVEYORS

R