



#### INDEPENDENT DEVELOPMENT TRUST

#### **BILL OF QUANTITIES (BOQ)**

THE DEMOLITION OF 112 PREFAB HOUSES (INCLUDING HOUSES UNDER THE ESKOM SERVITUDE) AND ERECTING OF 113 THREE BEDROOM BRICK HOUSES.

#### **VOLUME 2 OF 3**

#### **BID DOCUMENT**

Bid No.: DPWI01WCAN001-DB\_CON001-CONTRACTOR

#### BIDDER'S INFORMATION (Must be completed by Bidder)

(11111111111111111111111111111111111111	
Company Name	
Contact Person	
Cell / Tel Number	
Fax Number	
E-mail Address	
CSD Number	

**ADVERT DATE: 16 SEPTEMBER 2025** 

PREPARED FOR:

THE INDEPENDENT DEVELOPMENT TRUST

IDT Western Cape Regional Office 14th Floor, Customs House Heerengracht Street, Foreshore, Cape Town, 8001

CLOSING DATE AND TIME: 15 OCTOBER 2025, 12H00

Enquiries Email Address: <a href="mailto:dpwi01wcan-tenders@idt.org.za">dpwi01wcan-tenders@idt.org.za</a>;

Bid Document to Procure a design and build contractor. This document contains the Term of Reference, the Bid Data, the Returnable Documents, the Special Condition of Bid and the Contract Data.

NOTE: THE TWO ENVELOPE PROCEDURE WILL BE FOLLOWED FOR THIS TENDER NON-COMPLIANCE WILL RENDER YOUR TENDER INVALID

Item No		Quantity	Rate	Amount
	SECTION NO. 1 - PRELIMINARIES AND GENERAL			
	BILL NO. 1 - SCHEDULED ESTABLISHMENT, OVERHEADS & INCIDENTAL COSTS			
	(CPAP WORK GROUP 190 UNLESS OTHERWISE STATED)			
	PRICING INSTRUCTIONS TO TENDERS			
	Any items not priced are deemed to be included.			
	The rates and prices for completing an item scheduled in this section for establishment, overheads and incidental costs include everything to cover the Contractor's direct costs, overheads, profit and expenses required for all risks, liabilities and obligations in terms of this contract.			
	PLEASE NOTE: The Contractor hereby agrees that the rates in this section will be used for compensation event cost calculation and pricing where applicable instead of Defined Cost, unless otherwise decided by the Employer, at the Employer's sole discretion. Lump sum prices in this section are fixed for the contract, and are not subject to adjustment in compensation event assessments.			
	All the items scheduled in this section must be priced. In the absence of a price against any item, no claim for additional costs or charges for provision of any of the duties, services, facilities or obligations required in respect of that item will be considered.			
	ONCE-OFF ESTABLISHMENT COST			
	Claimable for payment upon completion of all related activities associated with each item			
	2			
	Carried Forward Preliminaries and General Bill No.1 - Preliminaries and General (NEC4)		R	

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	Brought Forward		R			
	Contractual Requirements					
1	Compliance with all clauses of the Contract and Works Information	Item				
2	Compliance with the law, regulations and by laws	Item				
3	Compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory	Item				
4	Compliance with the stipulations of the Environmental Specification	Item				
5	Insurance and liabilities	Item				
6	Performance bond	Item				
	Establish Facilities on the Site					
	Facilities for Project Manager					
7	Air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site	Item				
8	Contract name board	Item				
	Facilities for Contractor					
9	Offices (shared with Project Manager)	Item				
0	Workshops	Item				
11	Laboratories	Item				
12	Ablutions and latrine facilities	Item				
13	Tools and equipment	Item				
14	Water supply	Item				
15	Electricity supply	Item				
16	Communication	Item				
	Carried Forward  Preliminaries and General  Bill No.1 - Preliminaries and General (NEC4)		R			

	Brought Forward	Ī		R	j
	DE-ESTABLISHMENT COST				
17	Costs for complete removal of site establishment and restoration of the site to the Project Mangers satisfaction at the end of the contract:		ltem		
	ONGOING OPERATIONAL AND OVERHEAD COST				
	Claimable for payment as a time-related cost during execution of the contract				
	Contractual Requirements				
18	Compliance with all clauses of the Contract and Works Information	wks			
19	Compliance with the law, regulations and by laws	wks			
20	Compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory	wks			
21	Compliance with the stipulations of the Environmental Specification	wks			
22	Insurance and liabilities	wks			
23	Performance bond	wks			
24	Facilities for Project Manager	wks			
25	Air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site	wks			
26	Contract name board	wks			
27	Facilities for Contractor	wks			
28	Offices (shared with Project Manager)	wks			
29	Workshops	wks			
30	Laboratories	wks			
	Carried Forward Preliminaries and General Bill No.1 - Preliminaries and General (NEC4)			R	
					1

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	Brought Forward		R	
31	Ablutions and latrine facilities	wks		
32	Tools and equipment	wks		
33	Water supply	wks		
34	Electricity supply	wks		
35	Communication	wks		
36	Other	wks		
37	Company and head office costs	wks		
38	Provide the sum of R280 000,00 (Two Hundred And Eighty Thousand Rand) for the community liaison officer for the construction period of 31 months		SUM	
	INCIDENTAL EXPENDITURE PROVISIONS			
	Plant and Equipment			
	<u>Scaffolding</u>			
39	Providing and erecting on site conventional steel access scaffolding to reach any place of work on the internal side or external facade of the building including approaches, extensions, working platforms, ladders, lifting tackle for men and materials etc. all complete as determined and required by the contractor in accordance with the proposed phasing plan. All in accordance with the relevant SANS codes and the latest South African health and safety regulations for working at heights	wks		
40	Maintaining and moving all conventional steel access scaffolding on site	wks		
41	Dismantling and taking away all conventional steel access scaffolding towers after the completion of proposed work etc. all complete	wks		
	Carried Forward		R	
	Preliminaries and General Bill No.1 - Preliminaries and General (NEC4)			

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	Brought Forward		R	ĺ
	The quantities listed are included for tender evaluation purposes only, and do not reflect actual quantities envisaged for the project. The rates offered shall apply for compensation event pricing for the duration of the contract where applicable			
	<u>Plant</u>			
42	TLB (4x4) (wet rate)	Hrs		
43	TLB (4x4) (standing rate)	Hrs		
44	Tracker excavator (20 tons) (wet rate)	Hrs		
45	Tracker excavator (20 tons) (standing rate)	Hrs		
46	Front-end loader (2m" <sup>3</sup> minimum bucket size) (wet rate)	Hrs		
47	Front-end loader (2m" <sup>3</sup> minimum bucket size) (standing rate)	Hrs		
48	Water cart (9000 litres) (wet rate)	Hrs		
49	Water cart (9000 litres) (standing rate)	Hrs		
50	Self-propelled vibrating roller (12 tons) (wet rate)	Hrs		
51	Self-propelled vibrating roller (12 tons) (standing rate)	Hrs		
52	Vibrating plate compactor (wet rate)	Hrs		
53	Vibrating plate compactor (standing rate)	Hrs		
54	Rammer (wet rate)	Hrs		
55	Rammer (standing rate)	Hrs		
56	Tipper truck (7 tons) (wet rate)	Hrs		
57	Tipper truck (7 tons) (standing rate)	Hrs		
58	Tipper truck (8 tons) (wet rate)	Hrs		
59	Tipper truck (8 tons) (standing rate)	Hrs		
	Carried Forward Preliminaries and General Bill No.1 - Preliminaries and General (NEC4)		R	

	Brought Forward	
60	Tipper truck (10 tons) (wet rate)	Hrs
61	Tipper truck (10 tons) (standing rate)	Hrs
62	LDV (1 ton)	KMS
	<u>People</u>	
	All compensation event costs related to people are allocated according to the breakdown of categories below (or nearest matching category, if no exact description match). The following rate adjustments will apply for after hours work: Weekdays after hours and Saturdays - Rate X 1.5 Sundays and Public Holidays - Rate X 2	
63	Contract/Project Manager	DAY
64	Site Manager	DAY
65	Safety Officer	DAY
66	Registered Professional (QS, Eng, Arch)	DAY
67	Registered Technologist	DAY
68	Registered Technician	DAY
69	Site Foreman (General Supervisor)	DAY
70	Foreman (Supervisor)	DAY
71	Administrative clerk	DAY
72	Journeyman (Messenger)	DAY
73	Registered Electrician	DAY
74	Electrician assistant	DAY
75	Registered Plumber	DAY
76	Skilled Labourer (Artisan)	DAY
77	Unskilled Labourer	DAY
	Carried Forward to Summary of Section No. 1 Preliminaries and General Bill No.1 - Preliminaries and General (NEC4)	

Item No		Quantity	Rate	Amount
	SECTION NO. 1 - PRELIMINARIES AND GENERAL			
	BILL NO. 3 - EPWP & NATIONAL YOUTH SERVICE REQUIREMENTS			
	PREAMBLES			
	Tenderers are advised to study the Additional Specification SL: Employment and Training of Labour on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service, as bound elsewhere in the Bills of Quantities, and then price this Bill accordingly (SL 06.01)			
	TRAINING OF YOUTH WORKERS			
	(TARGET: 141 YOUTH WORKERS)			
	Orientation, Life skills development and technical			
	training:			
1	Orientation and Life skills development training for an average of 10 days and a Technical Training skills for an average of 107 days per youth worker (ref. SL 09.01.01 and ref. SL 09.01.02).	PS		3,728,179.40
2	Provide Medical Surveillance	PS		70,276.71
	Payment Reduction due to not meeting the training target. Refer to Part B: Amendments to the Standard Conditions of Contract Clause 25.8 for calculation formula.			
	Youth Worker R 2 500			
3	Profit and attendance on condition that services and cost has been incurred (on items 200.01.01 and 200.01.02 above) (ref. SL 011)	%		
	Carried Forward		R	
	Preliminaries and General Bill No.3 - EPWP			

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	Brought Forward		R
	EMPLOYMENT OF YOUTH WORKERS AND TRAVELLING DURING THE ON SITE TRAINING		
4	Employment of youth workers (Ref. SL 012 and Ref. SL 013)		
	The unit of measurement shall be the number of youth workers at the labour rate of R126.28 per day on Training as per EPWP Ministerial Determination multiplied by the period employed in months and the rate tendered shall include full compensation for all costs associated with the employment of youth workers and for complying with the conditions of contract. The cost for the training shall be excluded from this item. This item is based on 12 months appointment for youth workers. The travelling is based on R63 per day return trip/youth worker.	PS	7,036,801.22
5	Profit and attendance on condition that services and cost has been incurred (Ref. SL 011)	%	
	PROVISION OF EPWP DESIGNED OVERALLS AND HARD HATS TO YOUTH WORKERS		
6	Supply EPWP branded 2 x overalls, safety boots and 1 x EPWP branded hard hat to youth workers. Provide all youth workers with prescribed tools for their respective trades. Specification for the mentioned tools to be provided by the Service Provider. These tools will become the property of the youth workers after the completion of the programme (Ref. SL 014 and Ref. SL 015)	PS	463,826.28
7	Profit and attendance on condition that services and cost has been incurred (Ref. SL 011)	%	
	APPOINTMENT OF YOUTH TRAINING COORDINATOR AND / YOUNG PROFESSIONALS		
8	Appointment of Youth Training Coordinator/s for the duration of the contract (Ref. SL 016)	PS	270,000.00
9	Profit and attendance on condition that services and cost has been incurred (Ref. SL 011)	%	
	Carried Forward Preliminaries and General Bill No.3 - EPWP		R

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Brought Forward		R	
LOGISTICS FOR EXIT WORKSHOPS (REF. SL 17)			
Provide logistic items for exit workshop (Catering, Orange Golf T-Shirts, Venue Hire and Sound System).	PS		351,383.54
Profit and attendance on condition that services and cost has been incurred. (Ref. SL 011)	%		
Carried Forward to Summary of Section No. 1 Preliminaries and General Bill No.3 - EPWP		R	
	Provide logistic items for exit workshop (Catering, Orange Golf T-Shirts, Venue Hire and Sound System).  Profit and attendance on condition that services and cost has been incurred. (Ref. SL 011)  Carried Forward to Summary of Section No. 1  Preliminaries and General	Provide logistic items for exit workshop (Catering, Orange Golf T-Shirts, Venue Hire and Sound System).  Profit and attendance on condition that services and cost has been incurred. (Ref. SL 011)  %  Carried Forward to Summary of Section No. 1  Preliminaries and General	Provide logistic items for exit workshop (Catering, Orange Golf T-Shirts, Venue Hire and Sound System).  Profit and attendance on condition that services and cost has been incurred. (Ref. SL 011)  **Carried Forward to Summary of Section No. 1  Refininaries and General

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Item No		Quantity	Rate	Amount
	SECTION NO. 1 - PRELIMINARIES AND GENERAL			
	BILL NO. 2 - CONTRACT PARTICIPATION GOALS (CPG)			
	Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.			
	MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS			
	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in the Contract Participation Goals and CIDB Programme Implementation Guide Clause 4.1. Material to the value of R 2 500 000.00 should be purchased from local manuafacturers as defined in the CPG specifications in terms of locality, based on determination by PQS taking into account specific project variables.			
1	Allowance for monitoring and monthly reporting on material purchased from Local Building Material Manufacturers by main contractor and subcontractors including profit and attendance and all associated costs to the contractor for implementation.	5.00%	2,500,000.00	125,000.00
	MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS			
	Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in the Contract Participation Goals and CIDB Programme Implementation Guide Clause 4.2. Material to the value of R8 000 000.00 should be purchased from local suppliers as defined in the CPG specifications in terms of locality, based on determination by PQS taking into account specific project variables.			
	Carried Forward  Preliminaries and General  Bill No.2 - Contract Participation Goals		R	125,000.00

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	Brought Forward		R	125,000.00
2	Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors including profit and attendance and all associated costs to the contractor for implementation.	3.00%	8,000,000.00	240,000.00
	MINIMUM TARGETED LOCAL LABOUR SKILLS <u>DEVELOPMENT</u>			
3	Provision is made for the Minimum Targeted Local Labour Skills Development CPG in the execution of this project as described in the Contract Participation Goals and CIDB Programme Implementation Guide Clause 4.3 This allowance is for the cost for a suitably qualified and experienced training service provider appointed by the main contractor.	PS		500,000.00
4	Allowance for monitoring and monthly reporting on training provided by main contractor and subcontractors including profit and attendance and all associated costs to the contractor for implementation.	5.00%	500,000.00	25,000.00
	MINIMUM TARGETED ENTERPRISE DEVELOPMENT			
5	Provision is made for 20 % compulsory subcontracting to SMMEs in the execution of this project as described in the Contract Participation Goals and CIDB Programme Implementation Guide Clause 4.4. The provisional sum is the contractors allowance for the P&G's for the 20% sub-contractors (SMME's). The PQS is to define the actual P&G items applicable to the SMME's e.g. scaffolding, PPE etc.	PS		4,900,000.00
6	A provisional amount has been allowed for in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.5. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.	PS		1,560,000.00
	Carried Forward Preliminaries and General Bill No.2 - Contract Participation Goals		R	7,350,000.00

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	Brought Forward		R	7,350,000.00
7	A provisional amount has been allowed for in the execution of this project as described in the Contract Participation Goals and CIDB Programme Implementation Guide Clause 4.4. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly as well as profit and attendance inclusive of all associated costs to the contractor for implementation.	3.00%	6,460,000.00	193,800.00
	MINIMUM TARGETED SKILLS DEVELOPMENT GOALS			
8	A provisional amount has been allowed for the Minimum Targeted Development CPG in the execution of this project as described in the Contract Participation Goals and CIDB Programme Implementation Guide Clause 4.5			
	<ul> <li>stipends payable to the beneficiaries</li> <li>appointment of training coordinator</li> <li>appointment of mentor (where applicable)</li> <li>appointment of training service providers</li> <li>other additional costs as per table 3 of the Standard</li> </ul>	PS		1,225,000.00
9	Allowance for monitoring and monthly reporting on skills development by main contractor and subcontractors including profit and attendance and all associated costs to the contractor for implementation.	5.00%	1,225,000.00	61,250.00
	LABOUR INTENSIVE PARTICIPATION GOAL			
	Labour Intensive Participation Goal - Labour in tensive works to the value of R 1 000 000.00 should be implemented as defined in the the Contract Participation Goals and CIDB Programme Implementation Guide Clause 4.7, based on determination by PQS taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors.			
10	Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors including profit and attendance and all inclusive of associated costs to the contractor for implementation.	3.00%	1,000,000.00	30,000.00
	Carried Forward to Summary of Section No. 1 Preliminaries and General Bill No.2 - Contract Participation Goals		R	8,860,050.00

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Item No		Quantity	Rate	Amount
	SECTION NO. 1 - PRELIMINARIES AND GENERAL			
	BILL NO. 4			
	HIV/AIDS REQUIREMENTS			
	PREAMBLES			
	It is required of the Contractor to thoroughly study the Additional Specification SH: HIV / AIDS Requirements (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.			
	Provision for pricing of HIV/AIDS awareness is made under the items 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 Representative/Agent, notwithstanding the provisions of Clause 52 of the General Conditions of Contract for Works of Civil Engineering Construction 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			
	HIV/AIDS REQUIREMENTS			
1	Awareness Champion			
	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services.	th 30		
	Carried Forward Preliminaries and General Bill No.4 - AIDS		R	

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	Brought Forward			R	
2	Awareness Workshops				
	Selection and appointment of a competent Service Provider approved by the Representative/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.	No	15		
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 contract period.	mnth	30		
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 contract period.	mnth	30		
5	Monitoring				
	Monitoring HIV/AIDS awareness of workers, providing the Representative/Agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the contract period and close out.	mnth	30		
	Carried Forward to Summary of Section No. 1			R	
	Preliminaries and General Bill No.4 - AIDS			IX.	

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	Preliminaries and General			
Bill No	SECTION SUMMARY - Preliminaries and General	Page No		Amount
1	Bill No.1 - Preliminaries and General (NEC4)	6		
2	Bill No.2 - Contract Participation Goals	9		
3	Bill No.3 - EPWP	12		
4	Bill No.4 - AIDS	14		
	SUBTOTAL		R	
	Carried to Final Summary		R	
	Preliminaries and General			

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Item No		Quantity	Rate	Amount
	SECTION NO. 2 - DEMOLITIONS - 85 UNITS			
	BILL NO.1 - DEMOLITIONS			
	(CPAP WORK GROUP 104 UNLESS OTHERWISE STATED)			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	<u>View site</u>			
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
	<u>Explosives</u>			
	No explosives whatsoever may be used for alteration purposes unless otherwise stated			
	Carried Forward  Demolitions - 85 Units  Bill No.1 - Demolitions		R	

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	Brought Forward	[		R	
	General	•			
	Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent				
	Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site				
	REMOVAL OF EXISTING WORK				
	Demolishing and removing				
1	Demolition of single storey units including Carport/Garage (125m2/unit)	m2	14,125		
2	Excavation in earth not exceeding 2m deep to demolish and remove 110mm clay sewer pipe	m	3,390		
3	600mm diameter manholes not exceeding 1.5m deep	m3	193		
	Carried to Final Summary  Demolitions - 85 Units  Bill No.1 - Demolitions			R	_

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	Demolitions - 85 Units			
Bill	SECTION SUMMARY - Demolitions - 85 Units	Page		Amount
<b>No</b> 1	Bill No.1 - Demolitions	Page No 17		
	SUBTOTAL		R	
	Carried to Final Summary  Demolitions - 85 Units		R	

tem No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.1 - EARTHWORKS			
	(CPAP WORK GROUP 104 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Nature of ground			
	The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same			
	Carried Forward Building Works - 85 Units Bill No.1 - Earthworks		R	

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Brought Forward		R	
Subterranean water		III	
The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same			
Carting away of excavated material			
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			
Filling and layer work materials			
References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14: 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter			
Testing			
Prices for filling are to include for all necessary density and other tests			
<u>Formwork</u>			
Formwork to sides of footings, bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations			
SITE CLEARANCE			
Site clearance			
Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth m2	416		
Carried Forward		R	
Building Works - 85 Units Bill No.1 - Earthworks			

1

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	Brought Forward			R
	REMOVAL OF TREES ETC			
	Taking out and removing, grubbing up roots and filling in holes			
2	Tree stump not exceeding 1m high, exceeding 200mm and not exceeding 500mm girth	No	1	
3	Tree stump not exceeding 1m high, exceeding 1500mm and not exceeding 2000mm girth	No	1	
	Cutting down and removing, grubbing up roots, filling in holes and compacting to 95% Mod AASHTO density			
4	Hedge not exceeding 1500mm high	m	15	
5	Hedge exceeding 1500mm and not exceeding 3000mm high	m	10	
	EXCAVATION, FILLING, ETC OTHER THAN BULK			
	EXCAVATIONS ETC			
	Excavation in earth not exceeding 2m deep			
6	Trenches	m3	43	
7	Holes	m3	1	
8	Thickening under surface beds etc	m3	3	
	Extra over trench and hole excavations in earth for excavation in			
9	Soft rock	m3	5	
10	Hard rock	m3	3	
	Extra over trench and hole excavations in earth for breaking up and removing			
11	Brickwork	m3	5	
12	Unreinforced concrete	m3	5	
	Carried Forward Building Works - 85 Units Bill No.1 - Earthworks			R

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	Brought Forward			R	
13	Reinforced concrete	m3	3		
	Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 93% Mod AASHTO density				
14	Not exceeding 500mm deep for placing and removing formwork to walls etc, 250mm away from excavated face	m2	66		
15	Extra over for excavation in soft rock	m2	7		
16	Extra over for excavation in hard rock	m2	3		
	Extra over all excavations for carting away				
17	Surplus material from bulk excavations and/or stock piles on site to a dumping site located by the contractor (This rate 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, and spoiled at a site located by the contractor not exceeding 10km in one direction from the site. Rate should allow for the spoiling costs paid at the dump site.	m3	27		
18	Extra over carting away of surplus material further than 10km in one direction from the site	m3	27		
	Risk of collapse of excavations				
19	Sides of trench and hole excavations not exceeding 1,5m deep	m2	84		
20	Sides of trench and hole excavations exceeding 1,5m deep	m2	86		
	Keeping excavations free of water				
21	Keeping excavations free of all water other than subterranean water		Item		
	Carried Forward Building Works - 85 Units Bill No.1 - Earthworks			R	
	Building Works - 85 Units				K

**-22-** 2025/09/16

	Brought Forward			R	
	FILLING ETC				
	Selected earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density				
22	Under floors, steps, pavings, etc	m3	1		
23	Backfilling to trenches, holes, etc	m3	20		
	Filling of coarse river sand supplied by the contractor, consolidated				
24	Under floors etc	m3	12		
25	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	83		
	WEED KILLERS, INSECTICIDES, ETC				
	Soil insecticide in accordance with SANS 5859				
26	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	83		
27	To bottoms and sides of trenches etc	m2	273		
	<u>TESTS</u>				
	Prescribed tests to determine degree of compaction or other properties of ground or filling (the following test should include travelling cost from laboratory to site within 10km in one direction to the site)				
28	"Modified AASHTO Density" test	No	2		
29	In-situ dry density test in accordance with method A10(b) of TMH1	No	2		
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units Bill No.1 - Earthworks			R	

-23- 2025/09/16

Item No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT			
	(CPAP WORK GROUP 110, 111 and 114 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.  Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the			
	abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Carried Forward Building Works - 85 Units Bill No.2 - Concrete, Formwork and Reinforcement		R	

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Brought Forward	R	
Cost of tests		
The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)		
No-Fines concrete		
No-Fines concrete shall consist of 6 part aggregate to one part cement (1:6)		
Striking off and curing		
Concrete prices are to include for striking off and curing.		
<u>Formwork</u>		
Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before reuse		
The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself		
Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described		
Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described		
Carried Forward  Building Works - 85 Units  Bill No.2 - Concrete, Formwork and Reinforcement	R	

-25- 2025/09/16

	Brought Forward			R	ĺ
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15MPa/19mm concrete				
1	Blinding	m3	2		
	20MPa/19mm concrete				
2	Strip footings	m3	2		
3	Bases	m3	1		
	UNREINFORCED CONCRETE				
	15MPa/19mm concrete				
4	Filling to cavity of hollow brick wall	m3	2		
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
5	Surface beds on waterproofing	m3	8		
6	Strip footings	m3	10		
	TEST CUBES				
7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	8		
	Carried Forward			R	
	Building Works - 85 Units Bill No.2 - Concrete, Formwork and Reinforcement				

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	Brought Forward			R		
	CONCRETE SUNDRIES					
	Finishing top surfaces of concrete smooth with a wood float					
8	Surface beds, slabs, etc	m2	83			
	ROUGH FORMWORK (DEGREE OF ACCURACY III)					
	Rough formwork to sides					
9	Strip footings	m2	33			
	MOVEMENT JOINTS ETC					
	Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces					
10	Not exceeding 300mm high to edges of surface beds	m	66			
	REINFORCEMENT					
	Mild & High tensile steel reinforcement to structural concrete work					
11	Steel bars of varying diameter	t	0.40			
	Fabric reinforcement					
12	Type 193 fabric reinforcement in concrete surface beds etc	m2	47			
13	Type 245 fabric reinforcement in concrete surface beds etc	m2	32			
						$\vdash$
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units Bill No.2 - Concrete, Formwork and Reinforcement			R		
		l.			A .	I

-27- 2025/09/16

Item No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.3 - MASONRY			
	(CPAP WORK GROUP 116 & 118 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Carried Forward Building Works - 85 Units Bill No.3 - Masonry		R	

-28- 2025/09/16

	Brought Forward			R	
	Hollow walls				
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole				
	Bagged and sealed walls				
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating				
	BRICKWORK				
	<u>FOUNDATIONS</u>				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar				
1	One brick walls	m2	7		
2	280mm Hollow walls of two half brick skins, including wire ties	m2	43		
	SUPERSTRUCTURE				
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in class II mortar				
3	Half brick walls.	m2	45		
4	Half brick walls in beamfilling	m2	11		
5	280mm Hollow walls of two half brick skins, including wire ties	m2	99		
	BRICKWORK SUNDRIES				
6	Splayed mortar fillets one course high in 60mm cavities	m	97		
7	Closing 60mm cavities of hollow walls vertically with brickwork half brick wide	m	40		
	Carried Forward Building Works - 85 Units Bill No.3 - Masonry			R	

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	Brought Forward			R	
8	Closing 60mm cavity of hollow wall horizontally with one course of brickwork	m	13		
9	150mm Wide sill set sloping and slightly projecting	m	13		
	Bagging of 1:3 cement and sand mixture:				
10	On brick walls, piers, etc	m2	21		
	Joint forming material in movement joints				
11	10mm Bitumen impregnated fibre board not exceeding 300mm wide built in vertically through brick walls	m	8		
	2,5mm Galvanised brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	1,120		
	Prestressed fabricated concrete lintels including necessary temporary supports				
13	110 x 75mm Lintels in lengths not exceeding 3m	m	67		
	Galvanised hoop iron cramps, ties, etc				
14	32 x 1,6mm Roof tie 1,5m long with one end built into brickwork and other end fixed to timber	No	55		
	Air bricks etc				
15	229 x 152mm Clay vermin proof air brick	No	9		
	FACE BRICKWORK				
	Allow the prime cost amount amount of R 9,000.00 (Nine thousand Rand) per thousand for 'breeze block bricks' delivered to site pointed with square recessed horizontal and vertical joints				
16	Half brick walls pointed on both sides	m2	21		
	Carried Forward Building Works - 85 Units Bill No.3 - Masonry			R	

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	Brought Forward		R	
	FIBRE-CEMENT WINDOW SILLS		ı	
	Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs etc			
17	15 x 150mm Wide sills set flat and slightly projecting m	13		
				_
	Carried Forward to Summary of Section No. 3		R	=
	Building Works - 85 Units Bill No.3 - Masonry			

-31- 2025/09/16

Item No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.4 - WATERPROOFING			
	(CPAP WORK GROUP 120 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Waterproofing			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	Carried Forward  Building Works - 85 Units  Bill No.4 - Waterproofing		R	

-32- 2025/09/16

	Brought Forward	1	1	R	
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)				
1	In walls	m2	8		
2	In walls vertically at reveals	m2	11		
	One layer 375 micron orange polyethylene waterproof sheeting (SANS 952-1985 type A) sealed at laps with PVC self-adhesive tape				
3	Under surface beds	m2	83		
	Two coats "ABE dura.proof hydrokote" or similar approved flexible hydraulic micro-mortar waterproofing and protection membrane, applied in accordance with the manufacturers instruction				
4	On shower walls	m2	11		
5	On shower floors	m2	2		
	Two coats of grey coloured "Aqua-mite" or similar approved waterproof coating in accordance with the manufacturers instruction				
6	On valley linings	m	7		
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units Bill No.4 - Waterproofing			R	

-33- 2025/09/16

	Quantity	Rate	Amount
SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
BILL NO.5 - ROOF COVERINGS, ETC			
(CPAP WORK GROUP 122, 124 &125 UNLESS OTHERWISE STATED)			
NOTE			
The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
<u>Preambles</u>			
The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
Carried Forwa	rd	R	
Building Works - 85 Units Bill No.5 - Roof Coverings, etc			

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	Brought Forward			R	
	Guarantee				
	<ol> <li>The contractor will be required to provide an Engineer and a written guarantee, stating that:         <ol> <li>The roof sheeting is of the specified thickness.</li> <li>The client is indemnified against any defects, including colour deterioration for a minimum period of 5 years.</li> <li>All roof coverings and side cladding are to be installed to comply with SANS Code of Practice 0237 where applicable. All roof sheeting shall be laid under a 5 year guarantee for site workmanship and water tightness.</li> </ol> </li> </ol>				
	PROFILED METAL SHEETING AND ACCESSORIES (CPAP WORK GROUP 124)				
	Global Roofing Solutions 700mm cover Klip-Lok 700™ profile roll-formed in continuous lengths from ZINCALUME® AZ150 coated steel G550 0.53mm (Heavy Industrial) with a Clean COLORBOND finish to one side and a standard backing coat, Shadow Grey to other, fixed to timber purlin using KL700 plus clips fixed with , all following the manufacturer's specifications by a GRS approved contractor. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer.				
1	Roof covering with pitches not exceeding 25 degrees	m2	174		
	0,53mm AZ150 Zincalume steel sheet accessories to preceding roof covering and side cladding with clean Colorbond finish in approved standard colour on one side and a standard backing coat to the reverse side				
2	Ridge cappings 550mm girth bent and notched to suit roof profile including serrated closers and poly-closers	m	26		
3	Valley gutters (inverted roll-top ridge capping) 600mm girth	m	7		
4	Gable Trim (Barge Flash) 580mm girth 3 times bent.	m	18		
	Carried Forward Building Works - 85 Units Bill No.5 - Roof Coverings, etc			R	

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	Brought Forward			R	
	ROOF AND WALL INSULATION (CPAP WORK GROUP 122)				
	"Sisalation Fireshield NC 502 D/S" or similar approved double sided aluminium foil radiant barrier				
5	Insulation sheeting fixed to underside of rafters (at approximately 1200mm centres) with 150mm stapled laps including galvanised PVC coated steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	174		
	Carried Forward to Summary of Section No. 3  Building Works - 85 Units  Bill No.5 - Roof Coverings, etc			R	_

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Item No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.6 - CARPENTRY AND JOINERY			
	(CPAP WORK GROUP 126 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Carried Forward Building Works - 85 Units Bill No.6 - Carpentry and Joinery		R	

-37- 2025/09/16

	Brought Forward			R	
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
	All sections of timber to be built into brickwork of concrete to be wrapped in Gunplast and the cost is deemed to be included in the relevant item.				
	Tenderers should include silicone sealant between skirting and finished surfaces of walls and floors in their price				
	<u>Joinery</u>				
	Descriptions of frames shall be deemed to include frames, transoms, rails, etc				
	Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
	All exposed timber to be treated with preservative to combat fungus as prescribed by the Forestry Act 1968 (Act 72 of 1968).				
	PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC.				
	DESIGN, SUPPLY AND INSTALL				
1	Roof construction for double pitched roof to Type 4 typology, 3 bedroom residential building with gable ends on 3 sides, valleys,etc. overall size 19,400 x 9,380m on plan and approximately 4,500m high overall including wall plates, trusses at approximately 1 025mm centres and 50 x 76mm purlins/battens at approximately 1,200m centres for roof covering, complete.	No	1		
	TIMBER LEAN TO/CARPORT ROOF CONSTRUCTION				
	Wrought softwood grade S5				
2	50 x 152mm Rafter in lengths exceeding 2.4m and not exceeding 3.9m	m	9		
					<u> </u>
	Carried Forward			R	
	Building Works - 85 Units Bill No.6 - Carpentry and Joinery				
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	Brought Forward		1	R	
3	50 x 228mm Rafter in lengths exceeding 2.4m and not exceeding 3.9m	m	9		
	Wrought laminated pine grade S8 (architectural finish)				
4	45 x 297mm Bolted beams	m	6		
5	70 x 231mm Bolted beams in single lengths exceeding 3.9m and not exceeding 6.6m	m	12		
	Sundries				
6	90 Degree galvanised truss hanger to suit 50mm wide timber beam	No	12		
7	6mm Diameter x 60mm long screwbolt with head, nut and two washers	No	12		
8	10mm Diameter x 90mm Black Cup Bolts & Nuts,	No	24		
	EAVES, VERGES, ETC				
	Wrought meranti				
9	16mm Quadrant beads	m	38		
	Medium density plain fibre-cement flat sheets				
10	6mm Eaves or verge soffit covering including 38 x 38mm sawn softwood branders along edges, along centre and at 450mm centres across sheets	m2	19		
	Medium density plain fibre-cement fascias and barge boards				
11	12 x 225mm Fascias and barge boards, including galvanised steel H-profile jointing strips	m	38		
	FLOORS AND SKIRTINGS				
	<u>SKIRTINGS</u>				
	Wrought meranti				
12	20 x 70mm Skirtings, plugged	m	40		
	Carried Forward			R	
	Building Works - 85 Units Bill No.6 - Carpentry and Joinery				

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	Brought Forward			R		
13	21 x 140mm Decorative moulded skirtings plugged	m	30			
	DOORS, ETC					
	Semi-solid flush doors with 3,2mm plain hardboard covering on both sides, hung to steel or timber frames					
14	Semi-solid timber flush single leaf swing door, overall size 813 x 2032mm high	No	4			
15	Extra over for 300 x 300mm framed opening for metal louvre unit (louvre unit elsewhere)	No	3			
	Hollow core flush doors with commercial veneer, hung to slide					
16	40mm Door 813 x 2032mm high	No	1			
						_
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units			R		
	Bill No.6 - Carpentry and Joinery					

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	Quantity	Rate	Amount
SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
BILL NO.7 - CEILINGS			
(CPAP WORK GROUP 129 UNLESS OTHERWISE STATED)			
NOTE			
The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
<u>Preambles</u>			
The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Building Works - 85 Units Bill No.7 - Ceilings		R	

**-41-** 2025/09/16

Brought Forward			R	
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
Ceilings				
Unless otherwise described ceilings shall be deemed to be horizontal				
Bulkheads				
Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features				
Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings				
Unless otherwise described bulkheads shall be deemed to be horizontal along the length				
Steel components				
All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121				
<u>Openings</u>				
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc				
CEILING TIMBERS, BEADS, INSULATION, ETC				
"Knauf" insulation				
135mm Thick Glasswool thermal insulation laid on top of brandering between roof timbers, etc.	m2	89		
Carried Forward Building Works - 85 Units Bill No.7 - Ceilings			R	

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	Brought Forward			R	
	NAILED-UP CEILINGS				
	6mm "Gyproc Rhinoboard" plasterboard fixed to 38x50mm brandering, with tape fixed over joints and the whole finished with "Gyproc RhinoLite" plaster trowelled to a smooth polished surface complete and in strict accordance with the manufacturer's instructions				
2	Ceilings nailed to 38 x 50mm sawn softwood brandering (brandering elsewhere measured) at 300mm centres generally in both direction at joints and edges of boards	m2	89		
3	Extra over ceiling for 610 x 610mm trap door of 38 x 50mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	1		
4	Opening for 100mm diameter downlighter	No	6		
5	Rectangular bulkheads against wall 400mm wide x 200mm high, suspended not exceeding 1m below timber rafters at approximately 1200mm centres	m	14		
	Polystyrene cornices				
6	100 x 100mm Coved cornice.	m	70		
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units Bill No.7 - Ceilings			R	=

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Item No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.8 - FLOOR COVERINGS, ETC			
	(CPAP WORK GROUP 130 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	<u>Fixing</u>			
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc			
	Carried Forward Building Works - 85 Units Bill No.8 - Floor Coverings, etc		R	

**-44-** 2025/09/16

	Brought Forward	R	
Surface pre	paration, priming, curing, cleaning etc		
all necessa	s of the items below are deemed to include ry preparation, priming, mixing, curing, c as prescribed by the manufacturers of the ducts		
Prime Cost	(PC) Sums		
provided in to be obtain	(PC) Sums means an amount of money the bills of quantities for material and goods ned from a supplier nominated by the id to be fixed by the contractor		
contract sui	cost amount shall be omitted from the m and the amounts actually paid by the n respect of the purchase of the nett quantity ns including delivery to site shall be added to t sum		
	ctor has to allow for labour, profit and waste over and above the PC amount		
Installation	by an Approved Applicator		
	tion of the floor coverings is to be executed oved applicator (subcontractor)		
	Carried Forward  orks - 85 Units Toor Coverings, etc	R	

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Brought Forward	R	
Installation and Preparation of Sub-floor		
Vinyl floor coverings shall be installed in accordance with manufacturer's recommendations. Sub-floors must be smooth, hard, clean, level and dry before laying commences.		
Where existing vinyl floor coverings have been uplifted, then all bitumen adhesive must be removed by means of a scraper or any other suitable mechanical device.		
Dirt and dust must be removed by sweeping or, preferably by vacuuming.		
All grease, oil patches and any oil-based paint must be removed with suitable paint strippers or degreasing compounds. Once grease has been removed then the sub-floor must be washed to remove any stripper or residue and then allowed to dry thoroughly.		
All subfloors must be tested for moisture content with a hygrometer or Trammex prior to installation.		
Vinyl floor coverings must be allowed to relax for 24 hours in a uniform room temperature between 18 degrees C and 27 degrees C prior to installation.		
Vinyl floor coverings are to be fixed with adhesive as recommended by the manufacturer and in accordance with the manufacturers instructions.		
Vinyl floor coverings should be hotseam welded using welding rod as recommended by the manufacturer. It is essential that during the course of the installation the material be rolled in both directions with an articulated 68kg three sectional metal floor roller.		
		_
Carried Forward  Building Works - 85 Units  Bill No.8 - Floor Coverings, etc	R	

-46- 2025/09/16

	Brought Forward	ı		R	
	FLOOR COVERINGS				
	228 x 1219 x 3mm "FloorWorX" planks including underlay (Allow prime cost of R375,00/m² for the supply and deliver to site) laid to screeded floors (screeds elsewhere measured) including fitting, cutting and circular cutting all in accordance with the manufacturers specification.				
1	On floors	m2	30		
	8mm Engineered laminate floor planks including rubber underlay (Allow prime cost of R300,00/m² for the supply and deliver to site) laid to screeded floors (screeds elsewhere measured) including fitting, cutting all in accordance with the manufacturers specification.				
2	On floors	m2	41		
	Carried Forward to Summary of Section No. 3	}		R	
	Building Works - 85 Units Bill No.8 - Floor Coverings, etc				

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		Quantity	Rate	Amount
SECTION NO. 3 - BUILDING UNITS	WORKS - 85			
BILL NO.9 - IRONMONGERY	, -			
(CPAP WORK GROUP 132 L OTHERWISE STATED)	<u>INLESS</u>			
NOTE				
The use of trade names is an indi standard acceptable to the Projec other equal alternative product / k with prior written approval of the	t Manager. Any orand may be used			
<u>Preambles</u>				
The "Construction Works: Specificat Specification (PW371-A) Edition 2.1 Works: Specifications: Particular Sp B) Edition 2.2" obtainable on the Pu http://www.publicworks.gov.za/ under Documents; Consultants Guidelines 2.2.2 or from the Departmental Projection of quantities descriptions by interest SANS construction standards.	" and "Construction ecification (PW371- blic Works Website: er "Forms & "; Item 2.2.1 and ect Manager/Leader ad the abbreviated			
Users are to ensure that the abbrevious when read in conjunction with the apsystem, represents the full description abbreviated bills of quantities descriptionserting appropriate preambles or second	oplicable measuring on by extending the ptions and/or by			
The Standard Preambles and the Note trade bills are to apply equally to this				
	Carried Forward		R	
Building Works - 85 Units				

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Brought Forward			R	
Proprietary items				
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
On request returnable samples are to be provided to the Project Manager for consideration				
Finishes to ironmongery				
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled Sn Satin Nichol GE Grey enamelled AN Anodised natural AA Anodised Aluminium AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded S Sil				
HINGES, BOLTS, ETC  "Yale" or similar approved				
100 x 76mm Brass Stainless Steel Butt Hinge (Product Code 1075472)	irs	6.0		
Carried Forward Building Works - 85 Units Bill No.9 - Ironmongery			R	

1

**-49-** 2025/09/16

	Brought Forward			R	
	LOCKS				
	"Union" or similar approved				
2	CP Two lever upright lock CODE 22311-7615.	No	3		
3	SS 8mm "22314" Bathroom Lock	No	1		
	HANDLES				
	"Union" or similar approved				
4	Waterbok Lever Handle on Rose AL6W00-06AS	Pairs	4.0		
	DOOR CLOSERS				
	"Union" or similar approved				
5	"744P DC744 EN1-6 PA DA" Door closer	No	2		
	SLIDING GEAR				
	"Hillaldam" or similar approved				
6	Domestic Sliding Door Kit	No	1		
	SUNDRIES				
	Coir door mats laid loose in mat surround				
7	1000 x 1500 x 38mm Door mat	No	2		
	"Union" or similar approved				
8	AL8722AS Hat & Coat Hook with rubber buffer.	No	2		
	BATHROOM FITTINGS				
	"Solid" or similar approved				
9	19mm Diameter 900mm long chromium plated shower rail with chromium plated shower rail bracket plugged	No	2		
	Tall Will official plated effected fram bracket plagged				
					_
	Carried Forward to Summary of Section No. 3			R	<u>_</u>
	Building Works - 85 Units Bill No.9 - Ironmongery				

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Item No		Quantity	Rate	Amount	
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS				
	BILL NO.10 - METALWORK				
	(CPAP WORK GROUP 136 UNLESS OTHERWISE STATED)				
	NOTE				
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.				
	Standard Preambles				
	The Model Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained				
	Descriptions of bolts, anchors, etc				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
	Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres				
	Carried Forward Building Works - 85 Units Bill No.10 - Metalwork		R		

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Brought Forward		R	
Aluminium doors, windows, etc			
Doors and windows shall comply with AAAMSA design criteria			
Glazing shall comply with SAGGA regulations.Glass shall be as described in the headings to window descriptions. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings			
Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed			
The following certificates shall be provided prior to commencement of site work:			
<ol> <li>A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product</li> <li>A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively</li> <li>A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process</li> <li>A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked</li> <li>A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degredation for a period of not less than five years</li> </ol>			
GALVANISED STEEL MINOR WORK			
<u>Bolts</u>			
10mm M10 Standard Galvanised Bolt, nut and washers. No	10		
Carried Forward  Building Works - 85 Units  Bill No.10 - Metalwork		R	_

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	Brought Forward			R	
	Hot-dip galvanised steel posts				
2	76 x 76 Square carport post	m	12		
3	100 x 100 x 50mm, 5mm Thick, L-Shaped bracket twice holed for bolts on one side (bolts elsewhere measured) and welded to top of post on the other.	No	4		
	GALVANISED STEEL POWDER COATED GATES, SCREENS, ETC				
	"Trellidoor" or similar approved galvanised steel powder coated security gates, with and including slam lock fixed to brickwork or concrete, for opening				
4	Size 1000 x 2100mm high	No	2		
5	Size 2000 x 2100mm high	No	1		
	GALVANISED PRESSED STEEL DOOR FRAMES				
	1,6mm Thick single rebated frame for half brick wall complete with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc				
6	Frame for door size 813 x 2032mm	No	4		
	POWDER COATED ALUMINIUM WINDOWS, DOORS, ETC BY AAAMSA MEMBERS ONLY AND PROVIDE AAAMSA PERFORMANCE TEST CERTIFICATE				
	Casement pre-glazed top hung aluminium windows complete with ironmongery and including setting up, building in, filling back of frame with cement mortar, sealing around with silicone, etc				
7	Window type PT66 size 600 x 600mm glazed with 6.38mm Pacific obscure laminated safety glass.	No	2		
8	Window type PT612 size 600 x 1200mm glazed with 6.38mm clear laminated safety glass.	No	1		
9	Window type PT615 size 600 x 1500mm glazed with 6.38mm clear laminated safety glass.	No	1		
	Carried Forward Building Works - 85 Units Bill No.10 - Metalwork			R	

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	Brought Forward			R	Ĭ	
10	Window type PT1812 size 1800 x 1200mm glazed with 6.38mm clear laminated safety glass.	No	5			
11	Window type PT1518 size 1500 x 1800mm glazed with 6,38mm clear laminated safety glass.	No	1			
	Pre-glazed aluminium hinged doors, sidelights, etc complete with ironmongery and including setting up, building in, filling back of frame with cement mortar, sealing around same with silicone, etc					
12	Door type SHG1R2, size 900 x 2100mm high overall	No	1			
13	Stable door type SDG1R1, size 900 x 2100mm high overall	No	2			
14	Double door in two equal leaves type DHDM1821, size 1800 x 2100mm high overall	No	1			
15	Patio sidelights to either side of double door type SL0621, size 590mm x 2100mm high overall	No	2			
	STEEL BURGLAR BARS					
	Burglar bars comprising 25 x 5mm flat horizontal bars at 110mm centres and 25 x 5mm flat vertical bars at 300mm centres, bolted to walls with one-way countersunk bolts:					
16	Burglar bar for window size 600 x 600mm high.	No	2			
17	Ditto, but 600 x 1200mm.	No	1			
18	Ditto, but 600 x 1500mm	No	1			
19	Ditto, but 1800 x 1200mm	No	5			
20	Ditto, but 1500 x 1800mm	No	1			
	Carried Forward Building Works - 85 Units			R		_
	Bill No.10 - Metalwork					

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	Brought Forward			R	
	ALUMINIUM LOUVRE UNITS				
	POWDER COATED HORIZONTAL ALUMINIUM LOUVRE UNITS				
	"Trox" or similar approved fixed louvre units fixed to brickwork or concrete				
21	Standard louvre unit type AGS-T, 600 x 600mm high	No	1		
	SHOWER CUBICLE PANELS AND DOORS				
	Powder coated aluminium shower cubicle panels and doors with frames, sliding gear, pivot hinges, cleats, stops, etc. and 6mm toughened clear safety glass, plugged to tiled walls and sealed with silicone sealant (sizes to be verified on site):				
22	Fixed panel approximate size 800 x 1800mm high	No	1		
23	Hinged door approximate size 960 x 1800mm high	No	2		
	Country of Continue No. 2				
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units			R	=
	Bill No.10 - Metalwork				

-55- 2025/09/16

Item No			Quantity	Rate	Amount	
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS					
	BILL NO.11 - PLASTERING					
	(CPAP WORK GROUP 142 UNLESS OTHERWISE STATED)					
	NOTE					
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.					
	<u>Preambles</u>					
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.					
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.					
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.					
	SCREEDS					
	Screeds wood floated, on concrete					
1	25mm Thick on floors and landings	m2	18			
2	30mm Thick on floors and landings	m2	71			
	Carried Forward Building Works - 85 Units Bill No.11 - Plastering			R		_

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	Brought Forward			R	
	GRANOLITHIC				
	Untinted granolithic, on concrete				
3	30mm Thick on floors and landings	m2	3		
	INTERNAL PLASTER				
	Cement plaster wood floated for tiles, on brickwork				
4	On walls	m2	105		
5	On narrow widths not exceeding 300mm wide	m2	2		
	Cement plaster steel trowelled, on brickwork				
6	On walls	m2	76		
7	On narrow widths not exceeding 300mm wide	m2	7		
	Gypsum skim plaster finishing coat on plastered walls				
8	On walls	m2	76		
9	On ceilings	m2	89		
10	On narrow widths not exceeding 300mm wide	m2	7		
	EXTERNAL PLASTER				
	Cement plaster wood floated, on brickwork				
11	On walls	m2	99		
12	On narrow widths not exceeding 300mm wide	m2	4		
13	On sloping top, front edge and projecting soffit of sills 300mm girth	m	13		
	Rough-cast plaster, on brickwork				
14	On walls	m2	66		
15	On narrow widths not exceeding 300mm wide	m2	14		
	Carried Forward Building Works - 85 Units Bill No.11 - Plastering			R	
	Z res.rr radioning				

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	Brought Forward			R		
	AIR GRATINGS					
16	235 x 157mm Cast plaster or white plastic plain pattern air grating fixed flush with plaster face	No	9			
	CORNER PROTECTORS, DIVIDING STRIPS, ETC					
17	3 x 25mm Flat section galvanised mild steel dividing strip set on edge in screed between different floor finishes	m	2			
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units			R		_
	Bill No.11 - Plastering					

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Item No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.12 - TILING			
	(CPAP WORK GROUP 142 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	<u>Patterns</u>			
	Unless otherwise described, tiles shall be laid with continuous joints in both directions			
	Carried Forward		R	
	Building Works - 85 Units Bill No.12 - Tiling			

-59- 2025/09/16

I	Brought Forward		R		
	<u>Fixing</u>				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat				
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles				
	<u>Repairs</u>				
	Repairs to damaged areas in the existing concrete surface bed or slab is to be done using "TAL Superscreed"				
	Grouting joints				
	Joints to be 3 to 5mm maximum width				
	Prime Cost (PC) Sums				
	Prime Cost (PC) Sums means an amount of money provided in the bills of quantities for material and goods to be obtained from a supplier nominated by the architect and to be fixed by the contractor				
	The prime cost amount shall be omitted from the contract sum and the amounts actually paid by the contractor in respect of the purchase of the nett quantity of such items including delivery to site shall be added to the contract sum				
	The contractor has to allow for labour, profit and waste in his rate over and above the PC amount				
	Carried Forward		5		_
	Building Works - 85 Units Bill No.12 - Tiling		R		
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-60- 2025/09/16

	Brought Forward			R	
	WALL TILING				
	Allow the prime cost amount of R250/m2 (two hundred and fifty Rand) for ceramic tiles not exceeding 300 x 300mm for the supply and delivery to site), fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout				
1	On walls	m2	61		
2	On walls in isolated panels, splashbacks, etc not exceeding 1m <sup>2</sup>	m2	21		
3	On narrow widths not exceeding 300mm	m2	1		
	FLOOR TILING				
	Allow the prime cost amount of R300/m2 (Three hundred rand) for full bodied porcelain floor tiles not exceeding 600 x 600mm the supply and delivery to site), fixed with adhesive to screed (screed elsewhere) and flush pointed with grout				
4	On floors and landings	m2	18		
5	On narrow widths not exceeding 300mm wide	m2	2		
6	Skirting 100mm high of cut tiles	m	23		
	<u>SUNDRIES</u>				
	"M-Trim" or similar approved aluminium dividing strips				
7	5mm Straight edge trim (code ASE050)	m	14		
8	12mm Straight edge trim (code ASE120)	m	9		
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units			R	
	Bill No.12 - Tiling				

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tem No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.13 - PLUMBING AND DRAINAGE			
	(CPAP WORK GROUP 148 and 146 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Supplementary Preambles			
	uPVC pipes and fittings:			
	Soil, waste and vent pipes and fittings shall be solvent weld jointed			
	Carried Forward  Building Works - 85 Units  Bill No.13 - Plumbing and Drainage		R	

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Brought Forward	R	
Copper pipes:		
Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.  All pipes that are not chased on brickwork shall be tagged.		
Reducing fittings		
Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained		
Wire gratings		
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings		
Exposed concrete surfaces		
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster		
Flush pans		
Flush pans shall have straight or side outlets and "P" or "S" traps as necessary		
Carried Forward Building Works - 85 Units Bill No.13 - Plumbing and Drainage	R	_

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		R	
m	52		
No	10		
No	12		
No	6		
m	24		
No	12		
No	12		
No	6		
		R	
	No No No Mo	No 10 No 12 No 6  m 24 No 12 No 12 No 12	No 10 No 12 No 6  m 24 No 12 No 12 No 6

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	Brought Forward			R	ļ
	SANITARY FITTINGS				
	"Franke" or similar approved				
9	1200 x 535mm "Trendline 721" double end bowl sink fixed to countertop with clear silicone	No	1		
	White glazed vitreous china fittings including assembling and fixing in position, expanding bolts and mortices in brick or concrete walls, connecting up, etc.				
10	575 x 455mm, "Weaver" white vitreous china basin (code 704201WH) with one taphole, including integrated overflow and chainstay	No	2		
11	"Cobra Welcome" Close coupled toilet suite. Top, dual flush capability with 3L and 6L flush available. Box rim. Package cistern and cistern fittings, pan, seat and cover, connector and installation manual. Cistern manufactured with left hand side inlet hole only as per European standard.	No	2		
	"Libra" or similar approved:				
12	1 000 x 1 000 x 150mm "Cola 90°" white acrylic shower tray, set in cement mortar bedding and pointed all around with mildew resistant silicon sealant	No	2		
13	1800 X 900mm "Libra Widestar" rectangular built-in bath	No	1		
	WASTE UNIONS ETC				
	"Cobra" Watertech				
14	32mm "302-32" Slotted Basin waste	No	2		
15	38mm "316" Sink waste union	No	1		
16	"309-32" Anti Theft Plug fitted to unslotted basin waste (waste elsewhere)	No	2		
17	50mm Brass shower waste with 75mm diameter chrome plated shower grating (VA3.334-4)	No	2		
18	40mm CP "318" Bath waste unslotted clicker.	No	1		
	Carried Forward Building Works - 85 Units			R	
	Bill No.13 - Plumbing and Drainage				

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	Brought Forward			R	
	PVC				
19	50mm Deep seal P-trap	No	1		
	"Franke" or similar approved				
20	Spazio 2 plumbing kit	No	1		
	"Cobra Watertech"				
21	32mm "345/50 CP" bottle trap	No	2		
22	38mm "373" Shower P-trap with chrome plated grating	No	2		
	TAPS, VALVES, ETC				
	<u>Brass</u>				
23	22mm Stopcock	No	2		
	"Cobra" or similar approved				
24	15mm Chrome plated angle regulating valve with 350mm long flexible service connection (product code 832/350F)	No	8		
25	15mm Chrome plated 'Star' underwall F x F stoptap (product code FSTCF2C1-7FT01)	No	4		
26	Chrome Plated Nile Basin Mixer NL-951 (Product Code FBN1D1NI-0GT0426)	No	2		
27	Chrome Plated Nile Deck Type Sink Mixer NL-970 (Product Code FBN1D1NI-0GT0426)	No	1		
28	Nile exposed bath mixer (no hand shower) single lever with diverter (Product Code FBHEW2NI-0GT0426)	No	1		
29	15mm Rough brass hose bibtap with 20mm BSP hose union (product code 108-15)	No	2		
	"Grohe" or similar approved				
30	Tempesta cosmopolitan 100 head shower set (Product Code G-26090001)	No	2		
	Carried Forward Building Works - 85 Units Bill No.13 - Plumbing and Drainage			R	

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	Brought Forward			R	
31	BauEdge Single-Lever Shower Mixer (Product Code G-29040001)	No	2		
	SANITARY PLUMBING				
	PVC-U soil and vent pipes				
32	40mm Pipes	m	8		
33	50mm Pipes	m	8		
34	Not exceeding 50mm pipes chased into brickwork (pipe elsewhere)	m	8		
	Extra over PVC-U soil and vent pipes for fittings				
35	50mm "GI Two-Way" vent valve.	No	2		
36	50mm BSP adaptor	No	2		
37	110mm Pan connector	No	2		
38	40mm Bend or junction	No	3		
39	50mm Bend or junction	No	3		
40	110mm Bend or junction	No	2		
	WATER SUPPLIES				
	Pex-Al-Pex or equal approved multilayer pipe for hot water & heating with press fittings				
41	15mm Pipe and fixing to walls, floors, in roofs, soffit of concrete slab, in chases (including chases), in concrete, etc.	m	34		
42	20mm Pipes, ditto	m	23		
	Extra over press fittings				
43	16mm Fittings	No	14		
44	20mm Fittings	No	9		
	Carried Forward			R	
	Building Works - 85 Units Bill No.13 - Plumbing and Drainage			K	

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	Brought Forward			R	
	Class 2 copper pipes with brass compression couplings				
45	22mm Pipe,Pipe and fixing to walls, floors, in roofs, soffit of concrete slab, in chases (including chases) including brown paper lagging, in concrete, etc.	m	29		
	Extra over Class 2 copper pipes for brass compression fittings				
46	22mm Fittings	No	9		
	Brass fittings including couplings to copper				
47	22mm Hose bibtap as Cobra 108 including wallplate elbow plugged to wall	No	2		
48	15mm Stopcock as Cobra 131	No	2		
49	22mm Non-return valve	No	1		
50	22mm Pressure reducing valve	No	1		
51	22mm In-line strainer	No	1		
52	22mm Vacuum breaker	No	2		
53	22mm Automatic air vent/valve	No	1		
54	22mm Pressure safety valve	No	1		
55	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1		
56	150I Electric Geyser 400kPa horizontally mounted with TP Safety Valve installed complete, including brass pressure reducing/expansion relieve valve, No.2 vacuum breaker and connecting to supply and outlet pipes and electrical supply	No	1		
57	Drip Tray to suit 150l HWC, including 3m long 40mm uPVC overflow pipe	No	1		
58	Insulation Blanket for 150I HWC	No	1		
	Carried Forward Building Works - 85 Units Bill No.13 - Plumbing and Drainage			R	_

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	Brought Forward			R	Ī
59	Supply and Install "Alliance ALLHT35R134" 3.5 kW Heat Pump complete, including controller, interconnecting piping and cabling, including galvanised brackets	No	1		
	FIRE APPLIANCES ETC				1
60	4,5Kg dry chemical powder fire extinguisher plus painted back board	No	1		
	PIPE INSULATION				ı
	Thermaflex Preformed Polyethylene foam lagging				ı
61	Thermaflex preformed polyethylene foam lagging or similar approved insulation wrapped around 15mm pipe and fittings	m	21		
62	Ditto, but around 22mm pipe	m	31		ı
	TESTING				ı
63	Test hot & cold water pipe system		Item		l
64	Test waste pipe system		Item		l
65	Supply and handing over of detailed as-built drawings of the plumbing and drainage works as per the approved design and supply provided		Item		
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units Bill No.13 - Plumbing and Drainage			R	

-69- 2025/09/16

		Quantity	Rate	Amount
SECTION NO. 3 - BUILDING V UNITS	VORKS - 85			
BILL NO.14 - ELECTRICAL W	<u>ORK</u>			
(CPAP WORK GROUP 160 UN OTHERWISE STATED)	ILESS			
<u>Preambles</u>				
The "Construction Works: Specification Specification (PW371-A) Edition 2.1" Works: Specifications: Particular Specification: Particular Specification: Particular Specification: Particular Specification: Particular Specification: Particular Specification Specificatio	and "Construction cification (PW371- ic Works Website: "Forms & Item 2.2.1 and t Manager/Leader the abbreviated			
Users are to ensure that the abbreviation when read in conjunction with the appropriate matter of the system, represents the full description abbreviated bills of quantities descriptions inserting appropriate preambles or specific controls.	licable measuring by extending the ions and/or by			
The Standard Preambles and the Not trade bills are to apply equally to this				
Supplementary Preambles				
Specifications, drawings, etc.:				
Tenderers are referred to the specifical accompanying these bills of quantities work, for the full descriptions of the followhich are to be read and priced in consaid specification	for the electrical llowing items			
Building Works - 85 Units Bill No.14 - Electrical Work	Carried Forward		R	

**-70-** 2025/09/16

Brought Forward	R	
<u>Distribution boards, etc:</u>		
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings		
Switches, socket outlets, etc:		
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates		
<u>Light fittings:</u>		
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described		
<u>Liaison with Local Authority</u>		
Liaise with the Local Authority with regard to compliance with the National Building Regulations, Local By-laws and any other Statutory Regulations.		
Concurrent with Building Work:		
The electrical work in this service shall be carried out concurrently with the building work. The electrical contractor shall liaise closely with the building contractor		
Handing over existing materials:		
Where certain materials or articles are described as to be handed over by the contractor to the Department's Representative or Representative/Agent such materials or articles shall be properly stored by the contractor until handing over thereof. The contractor must obtain an official receipt listing the materials or articles and dates of handover. If the contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof which amount will be deducted from any monies due to the contractor.		
Carried Forward Building Works - 85 Units Bill No.14 - Electrical Work	R	

**-71-** 2025/09/16

	Brought Forward		R	
	ELECTRICAL INSTALLATION			
	Budgetary allowance for the complete electrical installation including power skirting or rails, light fittings, etc and builder's work but excludes primary transformers			
1	Wiring and accessories	PS		35,000.00
2	Lighting and accessories	PS		35,000.00
3	Socket outlets	PS		6,000.00
4	Isolators	PS		3,500.00
5	Distribution boards complete with essential and non- essential switchgear and accessories	PS		5,500.00
6	Labelling sum	PS		3,000.00
7	Intruder alarm detection	PS		15,000.00
8	Intercom/access control	PS		7,500.00
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units Bill No.14 - Electrical Work		R	

**-72-** 2025/09/16

	Quantity	Rate	Amount
SECTION NO. 3 - BUILDING WORKS - 85			
<u>UNITS</u>			
BILL NO.15 - MECHANICAL WORK			
(CPAP WORK GROUP 170 UNLESS OTHERWISE STATED)			
NOTE			
The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
<u>Preambles</u>			
The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
MECHANICAL SERVICES			
FANS (Supply and Install, including anti vibration mountings, canvas collars and brackets)			
Supply and install bathroom extraction fans "Xpelair BX100C" or similar complete with ducting and grilles as supplied.	No 2		
Carried Forward		R	
Building Works - 85 Units Bill No.15 - Mechanical Work		IX	

**-73-** 2025/09/16

	Brought Forward			R	
	WEATHER LOUVRES AND DOOR GRILLES ("AGS TROX")				
2	Door grill, 300x300	No	3		
2 3	Door grill, 300x300  Weatherproof wall grill louvre 600x600mm	No No	3 1		
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units Bill No.15 - Mechanical Work			R	

Item No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.16 - GLAZING			
	(CPAP WORK GROUP 150 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Float glass			
	The term "float glass" is used for monolithic annealed glass			
	Carried Forward Building Works - 85 Units Bill No.16 - Glazing		R	

**-75-** 2025/09/16

	Brought Forward			R		
	Laminated glass					
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)					
	TOPS, SHELVES, DOORS, MIRRORS, ETC					
	5mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete					
1	Mirror 600 x 900mm high with four screws	No	1			
2	Mirror 800 x 1200mm high with six screws	No	1			
						<u> </u>
	Carried Forward to Summary of Section No. 3			R		<u>_</u>
	Building Works - 85 Units Bill No.16 - Glazing					
		ı		l	II I	

**-76-** 2025/09/16

R	
	R

**-77-** 2025/09/16

	Brought Forward			R	
	Supplementary Preambles				
	Colours				
	Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards				
	PAINTWORK ETC TO NEW WORK				
	ON INTERNAL FLOATED PLASTER SURFACES				
	One coat alkali resistant primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint for interior use				
1	Walls	m2	19		
	ON EXTERNAL FLOATED PLASTER SURFACES				
	One coat alkali resistant primer and two coats extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint				
2	Walls	m2	99		
	ON EXTERNAL TEXTURED PLASTER SURFACES				
	One coat alkali resistant primer and two coats extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint				
3	Walls	m2	66		
4	Mouldings and bands picked out in colours differing from surrounding work	m2	33		
	Carried Forward			R	
	Building Works - 85 Units Bill No.17 - Paintwork				

**-78-** 2025/09/16

	Brought Forward			R	
	ON INTERNAL GYPSUM PLASTER SURFACES				
	One coat alkali resistant primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint for interior use				
5	Skimmed plasterboard ceilings	m2	89		
6	Walls	m2	82		
	ON FIBRE-CEMENT BOARD SURFACES				
	One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use				
7	Ceilings and cornices, including priming metal cover strips and nailheads	m2	19		
	Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint				
8	Fascias and barge boards, including priming metal jointing strips	m2	18		
	ON METAL SURFACES				
	Remove all traces of protective coating from galvanised surfaces with galvanised iron cleaner and apply one coat self etching primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on galvanised steel				
9	Door frames	m2	2		
0	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	32		
	ON WOOD SURFACES				
	Two coats oil wood primer				
1	Backs of frames, linings, etc not exceeding 300mm wide	m	70		
	Carried Forward Building Works - 85 Units			R	
	Bill No.17 - Paintwork				

**-79-** 2025/09/16

	Brought Forward			R	
	One coat primer and two coats premium quality polyurethane enamel paint				
12	Doors	m2	14		
12 13	Doors Skirtings, rails, etc not exceeding 300mm girth	m2 m	14		
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units Bill No.17 - Paintwork			R	

Item No		Quantity	Rate	Amount
	SECTION NO. 3 - BUILDING WORKS - 85 UNITS			
	BILL NO.18 - PROVISIONAL AMOUNTS			
	Provisional Sum for Four plate stove			
1	Provide the sum of R20,000.00 (Twenty Thousand Rands) for four plate stove.	PS		20,000.00
2	Contractors Markup		%	
	Provisional Sum for Wall mounted folded Washing line			
3	Provide the sum of R3,000.00 (Three Thousand Rands) for wall mounted washing lines.	PS		3,000.00
4	Contractors Markup		%	
	Provisional Sum for Bedroom & kitchen joinery			
5	Provide the sum of R80,000.00 (Eighty Thousand Rands) for bedroom and kitchen joinery.	PS		80,000.00
6	Contractors Markup		%	
	Provisional Sum for Geotechnical Investigation			
7	Provide the sum of R5,000.00 (Five Thousand Rands) per unit per geotechnical investigation.	PS		5,000.00
8	Contractors Markup		%	
	Provisional Sum for pergolas			
9	Provide the sum of R19,250.00 ((Nineteen Thousand Two Hundred and Fifty Rand) for pergolas	PS		19,250.00
10	Contractors Markup		%	
	Carried Forward		R	
	Building Works - 85 Units Bill No.18 - Provisional Amounts			

-81- 2025/09/16

	Brought Forward		R	
l	Provisional Sum for steel carports per unit			
11	Provide the sum of R9,000.00 (Nine Thousand Rand) for a steel carports	PS		9,000.00
12	Contractors Markup		%	
	Provisional Sum for plan scrutiny fees unit			
13	Provide the sum of R13,000.00 (Thirteen Thousand Rand) for plan scrutiny fees per unit	PS		13,000.00
14	Contractors Markup		%	
	Provisional Sum for N.H.B.R.C enrolment certificate per unit.			
15	Provide the sum of R 33,500.00 (Thirty Three Thousand, Five Hundred) for N.H.B.R.C enrolment certificates per unit	PS		33,500.00
16	Contractors Markup		%	
	Provisional Sum for decanting			
17	Provide the sum of R9,000.00 (Nine Thousand Rand) for decanting per unit.	PS		9,000.00
18	Contractors Markup		%	
	Carried Forward to Summary of Section No. 3 Building Works - 85 Units Bill No.18 - Provisional Amounts		R	

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Amount
Amount

-83- 2025/09/16

COTION CHIMMARY Desiration Wantes Of Hete			
ECTION SUMMARY - Building Works - 85 Units	Page No		Amount
Brought Forward	No	R	
SUBTOTAL FOR 85 UNITS		R	
OBTOTAL FOR GO GIVITO			
Carried to Final Summary		R	
uilding Works - 85 Units			

Bill No

-84- 2025/09/16

Item No		Quantity	Rate	Amount	
	SECTION NO. 4 - EXTERNAL/CIVIL WORKS - 85 UNITS				
	BILL NO.1 - EXTERNAL WORKS				
	(CPAP WORK GROUP 104,112,136 and 154 UNLESS OTHERWISE STATED)				
	NOTE				
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.				
	<u>Preambles</u>				
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.				
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.				
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.				
	Nature of ground				
	The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same				
	Carried Forward External/Civil Works - 85 Units Bill No.1 - External Works		R		

-85- 2025/09/16

	E	Brought Forward	R	
Subterranean wa	<u>ater</u>			
	e ground is unknown and vn assessment and due			
Carting away of	excavated material			
be deemed to in trucks directly from	earting away of excavate clude loading excavated om the excavations or, a situated on the building	material onto Iternatively,		
Working Space				
linings, etc, has conditions and s  1. The dep 1000mm of the st than 250 linings a  2. The dep and the	or any work requiring for been determined by the hall be measured where th of the excavation doe and the distance from to ructure to the excavated from for formwork or 600 and th of the excavation exception et to the excavated face is	following : s not exceed the finished face face is less omm for brick eeds 1000mm and face of the		
Filling and layer	work materials			
in descriptions of corresponding refor Road Construction compiled by the and the properties	n as "G1", "G2", etc and filling and layer work materials. TRH 14 Committee of State Roads set out therein for each respective materials de	aterials refer to nt "Guidelines 4 : 1985" d Authorities th kind shall be		
deemed to inclu	earth filling, compaction, de for all necessary testi the SABS 1200 series			
				—
External/Civil Wo Bill No.1 - Extern	orks - 85 Units	Carried Forward	R	

-86- 2025/09/16

	Brought Forward			R	
	Testing of material and filling				
	Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series				
	Precast concrete block road surfacing				
	Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications				
	SITE CLEARANCE (CPAP WORK GROUP 104)				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	80		
	FILLING, ETC (CPAP WORK GROUP 104)				
	G5 Earth filling from commercial sources supplied by the Contractor in accordance with SABS 1200 DM, compacted to 95% Mod AASHTO density				
2	Base/Sub-Base layers	m3	15		
	G7 Earth filling from commercial sources supplied by the Contractor in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density				
3	Over site to make up levels	m3	15		
	Compaction of surfaces				
4	Compaction of natural or excavated ground surface under parking areas etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	100		
	Prescribed density tests on filling:				
5	"Modified AASHTO Density" test	No	5		
	Carried Forward External/Civil Works - 85 Units Bill No.1 - External Works			R	
	Bill No.1 - External Works				

-87- 2025/09/16

	Brought Forward			R	
	CONCRETE, FORMWORK & REINFORCEMENT				
	REINFORCED CONCRETE (CPAP WORK GROUP 110)				
	25MPa/19mm concrete				
6	Surface beds or paving cast in panels on waterproofing	m3	1		
	TEST CUBES				
7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	2		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete to an evenly ribbed non-slip surface				
8	Pavings to falls	m2	10		
	ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP 111)				
	Rough formwork to sides				
9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	12		
	MOVEMENT JOINTS ETC				
	Expansion joints with 10mm bitumen impregnated softboard between vertical concrete surfaces, including necessary formwork				
10	Vertical not exceeding 300mm wide	m	12		
	REINFORCEMENT (CPAP WORK GROUP 114)				
	Fabric reinforcement				
11	Type 193 fabric reinforcement in concrete surface beds etc	m2	10		
	Carried Forward External/Civil Works - 85 Units			R	
	Bill No.1 - External Works				

-88- 2025/09/16

	Brought Forward			R	
	PAVING ETC (CPAP WORK GROUP 118)				
12	Allow the prime cost amount of R200/m2 (two hundred Rand) for the supply and delivery to site of paving of 450 x 450 x 50mm precast concrete block paving slabs laid on 30mm thick river sand bed  Paving of slabs laid with 25mm wide joints jointed with				
	Precast concrete kerbs finished smooth on exposed surfaces, bedded on a 50mm thick x 175mm wide layer of unreinforced concrete with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint and jointed in 3.1 cement mortar, including excavation, backfilling, etc	m2	75		
13	75 x 150mm High kerbs (E1/SANS 927 fig 11)  ROOT BARRIERS	m	35		
14	Biobarrier' or similar 750mm deep vertical root barriers.	m	90		
	Carried Forward to Summary of Section No. 4			R	
	External/Civil Works - 85 Units Bill No.1 - External Works				

-89- 2025/09/16

Item No		Quantity	Rate	Amount
	SECTION NO. 4 - EXTERNAL/CIVIL WORKS - 85 UNITS		S	
	BILL NO.2 - PLUMBING AND DRAINAGE			
	(CPAP WORK GROUP 146 and 148 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Wire gratings			
	Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
	Carried Forward		R	
	External/Civil Works - 85 Units Bill No.2 - Plumbing and Drainage			

-90- 2025/09/16

Brought Forward	R	
Stormwater channels		
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site		
Exposed concrete surfaces		
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster		
Sealing of edges		
Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone		
Reducing fittings		
Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained		
uPVC pipes and fittings		
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings		
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings		
uPVC pressure pipes and fittings		
Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings		
Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints.  Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints		
Carried Forward  External/Civil Works - 85 Units  Bill No.2 - Plumbing and Drainage	R	_

-91- 2025/09/16

Brought Forward		R		
High density polyethylene (HDPe) pipes and fittings				
Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings				
"Polycop" polypropylene pipes				
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings				
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions				
Copper pipes				
Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016				
Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition				
Fixing of pipes				
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level				
Carried Forward  External/Civil Works - 85 Units  Bill No.2 - Plumbing and Drainage		R		
	l	I	i l	

-92- 2025/09/16

Brought Forward	R	
Stainless steel basins, sinks, wash troughs, urinals, etc		
Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)		
Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)		
Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)		
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable		
Paper wrapping to pipes		
Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings		
Laying, backfilling, bedding, etc of pipes		
Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled		
Filling and bedding material		
Selected Fill Material: Selected material shall be material that has a P.I not greater than 6, is free from vegetation and from lumps and stones of diameter > 30mm. This material shall be used for the selected fill blanket		
Selected Granular Material: Selected granular material shall be of a granular, non- cohesive nature that is singularly graded between .6mm and 19mm, free draining, has a compact ability factor not exceeding .4 or such similar value as is laid down in project specification. For PVC and uPVC the factor is not to exceed the following; 1) 0.1 - Material suitable for all ground conditions 2) 0.3 - Material suitable provided extra care is taken during compaction operation		
Carried Forward External/Civil Works - 85 Units Bill No.2 - Plumbing and Drainage	R	

-93- 2025/09/16

	Brought Forward			R	
	Joints:				
	To ensure that each pipe will be fully supported throughout the length of its barrel on the bedding cradle, joint pockets/ holes shall be formed in the bedding cradle for pipe sockets				
	All work below ground shall be carried out in accordance with SANS 1200DB, SANS 1200LB, SANS 1200LD and SANS 1200LE				
	<u>General</u>				
	Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)				
	Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
	EARTHWORKS (STORMWATER, SUBSOIL DRAINAGE, STORMWATER DRAINAGE, SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC, SOIL DRAINAGE AND WATER SUPPLIES) (CPAP WORK GROUP 146)				
	Excavation in earth				
1	Excavation in earth not exceeding 1m deep for pipe or cable trenches or chambers including risk of collapse of excavations	m3	60		
2	Excavation in earth exceeding 1m but not exceeding 2m deep for pipe or cable trenches or chambers including risk of collapse of excavations	m3	72		
3	Extra over excavation in earth for pipe and cable trenches or chambers for excavation in soft rock	m3	13		
4	Extra over excavation in earth for pipe and cable trenches or chambers for excavation in hard rock	m3	7		
	Carried Forward			R	
	External/Civil Works - 85 Units Bill No.2 - Plumbing and Drainage				
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-94-2025/09/16

	Brought Forward			R	I
5	Extra over excavation for pipe and cable trenches or chambers for carting away surplus material to a dumping site located by the contractor (This rate 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, and spoiled at a site located by the contractor not exceeding 10km in one direction from the site.	m3	48		
6	Extra over carting away of surplus material further than 10km in one direction from the site	m3	32		
7	Earth filling supplied by contractor to pipe or cable trenches or chambers	m3	26		
8	Earth filling supplied by contractor to pipe or cable trenches compacted or chambers to 95% Mod AASHTO density	m3	26		
9	Imported granular filling in bedding under and filling around pipes	m3	5		
10	Imported sand filling in bedding under and filling around pipes	m3	10		
	CONCRETE (STORMWATER, SUBSOIL DRAINAGE, STORMWATER DRAINAGE, SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC, SOIL DRAINAGE AND WATER SUPPLIES)				
11	15MPa/19mm Concrete in encasing to not exceeding 110mm diameter horizontal pipe of a minimum thickness of 150mm around pipe, including all necessary casing	m	24		
12	15MPa/19mm Concrete in encasing to not exceeding 110mm diameter horizontal bend or junction of a minimum thickness of 150mm around fitting, including all necessary casing	No	15		
13	15MPa/19mm Concrete in thrust block (approximately 0,06 cubic metres) at bends, etc., including casing	No	10		
	Carried Forward External/Civil Works - 85 Units Bill No.2 - Plumbing and Drainage			R	

-95- 2025/09/16

	Brought Forward			R		
	PRECAST CONCRETE CHANNELS (CPAP WORK GROUP 112)					
	Lay new precast concrete channels (laid on a concrete bedding)					
14	260 x 140mm Channel with 150 x 75mm deep segmental channel	m	20			
	SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC (CPAP WORK GROUP 171)					
	Class 6 PVC-U pipes					
15	50mm Pipes laid in trenches (trenches elsewhere)	m	40			
	Extra over Class 6 PVC-U pipes for fittings					
16	50mm Long radius bend	No	4			
	<u>Draw wires</u>					
17	1,6mm Galvanised steel draw wires in pipes	m	40			
	SOIL DRAINAGE (CPAP WORK GROUP 146)					
	Normal duty PVC-U sewer channels					
18	110mm Channels in bottoms of inspection chambers	m	1			
	Extra over normal duty PVC-U sewer channels for fittings					
19	110mm Bend	No	2			
20	110mm Double junction	No	1			
	Heavy duty (Class 34) PVC-U sewer and drain pipes					
21	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	3			
22	110mm Pipes laid in trenches (trenches elsewhere)	m	20			
23	160mm Pipes, ditto	m	20			
	Carried Forward External/Civil Works - 85 Units Bill No.2 - Plumbing and Drainage			R		
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-96- 2025/09/16

	Brought Forward			R	1
	Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings				
24	110mm Bend	No	3		
25	160mm Bend	No	2		
26	110mm Junction	No	1		
27	160mm Junction	No	1		
28	160mm Reducing junction	No	1		
29	110mm Access bend	No	2		
30	110mm Access junction	No	1		
31	160mm Reducing junction	No	2		
32	110mm Rodding eye	No	2		
	uPVC gulleys				
33	110mm Gulley exceeding 500mm and not exceeding 750mm deep	No	2		
	Precast concrete circular inspection chambers including precast concrete cover slabs (cast iron covers and frames elsewhere) and channels in benching:				
34	1000mm Diameter inspection chamber not exceeding 1m deep internally	No	1		
35	Ditto, but exceeding 1,5m not exceeding 2m deep	No	1		
36	Ditto, but exceeding 2m not exceeding 2.5m deep	No	1		
	Gratings, covers, etc:				
37	Type 2A 635mm diameter cast iron manhole cover and frame	No	3		
38	Lifting-key for manhole cover (handed to Employer)	No	3		
	Carried Forward  External/Civil Works - 85 Units			R	
	Bill No.2 - Plumbing and Drainage				

-97- 2025/09/16

	Brought Forward			R	
	Testing:				
39	Testing soil drainage system		Item		
	WATER SUPPLIES (CPAP WORK GROUP 148)				
	Class 12 HDPe type V pipes				
40	20mm Pipes laid in trenches (trenches elsewhere).	m	15		
41	32mm Pipes, ditto	m	25		
	Extra over Class 12 HDPe type V pipes for "Compression Type" fittings				
42	20mm Fittings	No	4		
43	32mm Reducer	No	1		
44	32mm Elbow	No	2		
45	32mm T	No	1		
	TAPS, VALVES, ETC				
	Brass				
46	22mm Stopcock	No	2		
47	35mm Stopcock	No	1		
	<u>Sundries</u>				
48	210 x 340mm Water meter box	No	1		
	IRRIGATION WATER SUPPLY (CPAP WORK GROUP 148)				
	Class 3 LDPE type pipes				
49	12mm Pipes laid in trenches (trenches elsewhere).	m	30		
	Carried Forward			R	
	External/Civil Works - 85 Units Bill No.2 - Plumbing and Drainage				

-98- 2025/09/16

	Brought Forward			R	
	Extra over Class 3 LDPE type pipes for "Compression Type" fittings				
50	12mm Couplings	No	3		
51	12mm Elbows	No	4		
52	12mm T-Piece	No	2		
53	End plug	No	2		
	TAPS, VALVES, ETC				
	<u>Brass</u>				
54	12mm Brass nickle plated ball valve	No	1		
	PVC				
55	12mm PVC Threaded ball valve	No	2		
	Sundries				
56	210 x 340mm Water meter box	No	1		
	Comind Formatic Community (Co. 11 Vi. 12				
	Carried Forward to Summary of Section No. 4 External/Civil Works - 85 Units			R	—
	Bill No.2 - Plumbing and Drainage				

	External/Civil Works - 85 Units				
D:II	SECTION SUMMARY - External/Civil Works - 85 Units		Domo		A
Bill No			Page No		Amount
1	Bill No.1 - External Works		89		
2	Bill No.2 - Plumbing and Drainage		99		
	SUBTOTAL			R	
	Multiplied by an additional 84 Units	No	84		
	SUBTOTAL FOR 85 UNITS			R	
	Carried to Final Summary			R	
	External/Civil Works - 85 Units				
					l I

-100- 2025/09/16

Item No		Quantity	Rate	Amount	
	SECTION NO. 5 - SITE ELECTRICAL RETICULATION - 85 UNITS				
	BILL NO.1 - SITE ELECTRICAL RETICULATION				
	(CPAP WORK GROUP 160 and 162 UNLESS OTHERWISE STATED)				
	NOTE				
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.				
	<u>Preambles</u>				
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.  Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the				
	abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.				
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.				
					_
	Carried Forward Site Electrical Reticulation - 85 Units Bill No.1 - Site Electrical Reticulation		R		

-101- 2025/09/16

Supplementary Preambles  Specifications, drawings, etc.:  Tenderers are referred to the specification accompanying these bills of quantities for the electrical work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification  Distribution boards, etc:  Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings  Switches, socket outlets, etc:  Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover		
Tenderers are referred to the specification accompanying these bills of quantities for the electrical work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification  Distribution boards, etc:  Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings  Switches, socket outlets, etc:  Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover		
accompanying these bills of quantities for the electrical work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification  Distribution boards, etc:  Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings  Switches, socket outlets, etc:  Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover		
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings  Switches, socket outlets, etc:  Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover		
busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings  Switches, socket outlets, etc:  Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover		
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover		
screwing to outlet boxes, connecting up and cover		
plates	ll ll	
Light fittings:		
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described		
<u>Liaison with Local Authority</u>		
Liaise with the Local Authority with regard to compliance with the National Building Regulations, Local By-laws and any other Statutory Regulations.		
Concurrent with Building Work:		
The electrical work in this service shall be carried out concurrently with the building work. The electrical contractor shall liaise closely with the building contractor		
Carried Forward	R	
Site Electrical Reticulation - 85 Units Bill No.1 - Site Electrical Reticulation		

-102- 2025/09/16

	Brought Forward			R	
	Handing over existing materials:				
	Where certain materials or articles are described as to be handed over by the contractor to the Department's Representative or Representative/Agent such materials or articles shall be properly stored by the contractor until handing over thereof. The contractor must obtain an official receipt listing the materials or articles and dates of handover. If the contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof which amount will be deducted from any monies due to the contractor.				
	Low Voltage Cables Armoured				
1	16 mm² Cu x 2 core with 1mm² Pilot wires	m	4,250		
2	16 mm² Cu x 2 core	m	1,800		
3	70mm² Al x 4 core	m	300		
4	120mm² Al x 4 core	m	1,100		
5	Terminations	No	1		
	<u>Distribution Kiosk</u>				
	Supply and install 12 Way Double door 3CR12 Steel Distribution Kiosk including all internal wiring, bus bars, circuit breakers, all labelling and accessories, with vermin proofing as specified. Kiosks to be pre-wired for split prepayment meter installation, meter installation by Others				
6	12 Way double door 3CR12 Steel Kiosk with 10 x 63A QF-1(26)-C1 6kA Curve 1 Single Pole MCB's as per CoCT Specification	No	3		
7	12 Way double door 3CR12 Steel Kiosk with 9 x 63A QF-1(26)-C1 6kA Curve 1 Single Pole MCB's as per CoCT Specification	No	3		
8	Single-phase Prepaid billing meter complete 80A	No	85		
	Site Electrical Reticulation - 85 Units Bill No.1 - Site Electrical Reticulation			R	

-103- 2025/09/16

	Brought Forward			R	
9	User/keypad 80A	No	85		
10	Labelling sum	No	1		
	Streetlighting				
	Comprises floodlighting, sundry builder's work, etc.				
11	BEKAStar - 47W LED	No	1		
12	BEKARay - 47W LED	No	20		
13	LUCCA Post Top - 45W-LED	No	1		
14	6,3m Galvanised Steel pole	No	11		
15	16mm² Al 2-Core	No	550		
16	Terminations	No	1		
17	Streetlighting control	No	6		
18	Labelling sum	No	1		
	Earthing & Bonding				
19	Steel reinforced 1,8m copper earth spikes and brass coupling wiSteel reinforced 1,8m copper earth spikes and brass coupling with driving capth driving cap	No	24		
20	70mm² BCE wiring	m	250		
21	Termination of 70mm² on copper spike and earth bar	m	48		
22	Earthing and Bonding of a unit or residential installation including all equipment to bond water pipes and the like in compliance with SANS 10142, the General Specification, the Code of Practice and the Local Supply Authorities as per the Statutory requirements IRO Wiring of Premises. Rate measured as per unit	No	85		
23	2,5mm² BCE wiring	m	1,000		
24	4mm² BCE wiring	m	1,000		
	Carried to Final Summary Site Electrical Reticulation - 85 Units Bill No.1 - Site Electrical Reticulation			R	

-104- 2025/09/16

	Site Electrical Reticulation - 85 Units			
Bill No	SECTION SUMMARY - Site Electrical Reticulation - 85 Units	Page No		Amount
1	Bill No.1 - Site Electrical Reticulation	104		
	SUBTOTAL		R	
	Carried to Final Summary Site Electrical Reticulation - 85 Units		R	

Item No		Quantity	Rate	Amount
	SECTION NO. 6 - LANDSCAPING AND PAVING - 85 UNITS			
	BILL NO.1 - LANDSCAPING AND PAVING			
	(CPAP WORK GROUP 104, 110, 111,112, 114, 118,& 154)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Nature of ground			
	The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same			
	Carried Forward  Landscaping and Paving - 85 Units  Bill No.1 - Landscaping and Paving		R	

**-106-** 2025/09/16

	Brought Forward	R	
<u>Sı</u>	ubterranean water		
is	ne nature of the ground is unknown and the contractor to make his own assessment and due allowance for time		
<u>C</u>	arting away of excavated material		
be tru	escriptions of carting away of excavated material shall edeemed to include loading excavated material onto ucks directly from the excavations or, alternatively, orm stock piles situated on the building site		
<u>w</u>	orking Space		
lin	forking space for any work requiring formwork, brick sings, etc, has been determined by the following onditions and shall be measured where:  1. The depth of the excavation does not exceed 1000mm and the distance from the finished face of the structure to the excavated face is less than 250mm for formwork or 600mm for brick linings and  2. The depth of the excavation exceeds 1000mm and the distance from the finished face of the structure to the excavated face is less than 600mm		
<u>Fi</u>	lling and layer work materials		
in co fo co ar ap	references such as "G1", "G2", etc and "C1", "C2", etc descriptions of filling and layer work materials refer to breesponding references in the document "Guidelines or Road Construction Materials. TRH 14: 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be oplicable to the respective materials described ereinafter		
de	escriptions of earth filling, compaction, etc shall be eemed to include for all necessary testing required in ecordance with the SABS 1200 series		
			_
	Carried Forward andscaping and Paving - 85 Units II No.1 - Landscaping and Paving	R	

-107- 2025/09/16

	Brought Forward			R	
	Testing of material and filling				
	Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series				
	Precast concrete block road surfacing				
	Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications				
	SITE CLEARANCE (CPAP WORK GROUP 104)				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	7,280		
	FILLING, ETC (CPAP WORK GROUP 104)				
	G5 Earth filling from commercial sources supplied by the Contractor in accordance with SABS 1200 DM, compacted to 95% Mod AASHTO density				
2	Base/Sub-Base layers	m3	1,080		
	G7 Earth filling from commercial sources supplied by the Contractor in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density				
3	Over site to make up levels	m3	1,080		
	Compaction of surfaces				
4	Compaction of natural or excavated ground surface under parking areas etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	7,280		
	Prescribed density tests on filling:				
5	"Modified AASHTO Density" test	No	35		
	Carried Forward Landscaping and Paving - 85 Units Bill No.1 - Landscaping and Paving			R	

-108- 2025/09/16

	Brought Forward			R	
	PAVING ETC (CPAP WORK GROUP 118)				
	Allow the prime cost amount of R10,000 per thousand paving bricks (ten thousand rand) for the supply and delivery to site of paving of 50mm clay paving bricks laid on 50mm thick river sand bed				
6	Clay paving laid with open joints with sand and cement mixture swept into joints, hosed down and pointed with slightly keyed joints including preparation of ground or filling in stretcher bond	m2	7,200		
	PRECAST CONCRETE (CPAP WORK GROUP 112)				
	Precast concrete kerbs finished smooth on exposed surfaces, bedded on a 50mm thick x 175mm wide layer of unreinforced concrete with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint and jointed in 3.1 cement mortar, including excavation, backfilling, etc				
7	75 x 150mm High kerbs (E1/SANS 927 fig 11)	m	8,000		
	Operiod Forward to Operation No. 0				
	Carried Forward to Summary of Section No. 6 Landscaping and Paving - 85 Units Bill No.1 - Landscaping and Paving			R	

**-109-** 2025/09/16

Item No		Quantity	Rate	Amount
	SECTION NO. 6 - LANDSCAPING AND PAVING - 85 UNITS			
	BILL NO.2 - PLUMBING AND DRAINAGE			
	(CPAP WORK GROUP 146,148 & 171 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Wire gratings			
	Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
	Carried Forward		R	
	Landscaping and Paving - 85 Units Bill No.2 - Plumbing and Drainage			

**-110-** 2025/09/16

Brought Forward	R	
Stormwater channels		
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site		
Exposed concrete surfaces		
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster		
Sealing of edges		
Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone		
Reducing fittings		
Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained		
uPVC pipes and fittings		
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings		
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings		
uPVC pressure pipes and fittings		
Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings		
Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints		
Carried Forward  Landscaping and Paving - 85 Units  Bill No.2 - Plumbing and Drainage	R	
	Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site  Exposed concrete surfaces  Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster  Sealing of edges  Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone  Reducing fittings  Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained uPVC pipes and fittings  Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings  Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings  UPVC pressure pipes and fittings  Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings  Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints	Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site  Exposed concrete surfaces  Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster  Sealing of edges  Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone  Reducing fittings  Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained uPVC pipes and fittings  Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings  Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings  uPVC pressure pipes and fittings  Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings  Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

-111- 2025/09/16

Brought Forward	R	
High density polyethylene (HDPe) pipes and fittings		
Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings		
"Polycop" polypropylene pipes		
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings		
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions		
Copper pipes		
Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016		
Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition		
Fixing of pipes		
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level		
Carried Forward	R	
Landscaping and Paving - 85 Units Bill No.2 - Plumbing and Drainage		

**-112-** 2025/09/16

	Brought Forward	R	
<u>Stai</u>	nless steel basins, sinks, wash troughs, urinals, etc		
	nless steel for economy basins, domestic sinks and ktops shall be Type 430 (17/0)		
	nless steel for urinals, basins, quality sinks, wash ghs, institutional equipment, etc shall be Type 304 8)		
	nless steel for laboratory sinks, photographic ipment, etc shall be Type 316 (18/8)		
	s shall have standard aprons on all exposed edges tiling keys against walls where applicable		
<u>Pap</u>	er wrapping to pipes		
laye	es chased into brickwork must be wrapped with two ers of stout brown paper tied with wire. Rates are to ude for wrapping around joints and fittings		
Lay	ing, backfilling, bedding, etc of pipes		
mar	es shall be laid and bedded in accordance with nufacturers' instructions and trenches shall be efully backfilled		
<u>Filli</u>	ng and bedding material		
Sele grea and	ected Fill Material: ected material shall be material that has a P.I not ater than 6, is free from vegetation and from lumps stones of diameter > 30mm. This material shall be d for the selected fill blanket		
Sele coh and not proj not 1) 0 2) 0	ected Granular Material: ected granular material shall be of a granular, non- esive nature that is singularly graded between .6mm 19mm, free draining, has a compact ability factor exceeding .4 or such similar value as is laid down in ect specification. For PVC and uPVC the factor is to exceed the following; .1 - Material suitable for all ground conditions .3 - Material suitable provided extra care is taken ng compaction operation		
	<b>Carried Forward</b> dscaping and Paving - 85 Units No.2 - Plumbing and Drainage	R	_

-113- 2025/09/16

	Brought Forward			R	
	Joints:				
	To ensure that each pipe will be fully supported throughout the length of its barrel on the bedding cradle, joint pockets/ holes shall be formed in the bedding cradle for pipe sockets				
	All work below ground shall be carried out in accordance with SANS 1200DB, SANS 1200LB, SANS 1200LD and SANS 1200LE				
	<u>General</u>				1
	Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)				
	Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
	EARTHWORKS (STORMWATER, SUBSOIL DRAINAGE, STORMWATER DRAINAGE, SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC, SOIL DRAINAGE AND WATER SUPPLIES) (CPAP WORK GROUP 146)				
	Excavation in earth				
1	Excavation in earth not exceeding 1m deep for pipe or cable trenches or chambers including risk of collapse of excavations	m3	1,600		
2	Excavation in earth exceeding 1m but not exceeding 2m deep for pipe or cable trenches or chambers including risk of collapse of excavations	m3	2,400		
3	Extra over excavation in earth for pipe and cable trenches or chambers for excavation in soft rock	m3	400		
4	Extra over excavation in earth for pipe and cable trenches or chambers for excavation in hard rock	m3	200		
	Carried Forward			R	
	Landscaping and Paving - 85 Units Bill No.2 - Plumbing and Drainage				
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	Brought Forward			R	
5	Extra over excavation for pipe and cable trenches or chambers for carting away surplus material to a dumping site located by the contractor (This rate 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, and spoiled at a site located by the contractor not exceeding 10km in one direction from the site. Rate should not allow for the spoiling costs paid at the dump site and this will be measured as an separate item in each work package)	m3	1,788		
6	Extra over carting away of surplus material further than 10km in one direction from the site	m3	1,192		
7	Backfilling to pipe or cable trenches or chambers	m3	800		
8	Backfilling to pipe or cable trenches compacted or chambers to 95% Mod AASHTO density	m3	1,200		
9	Selected granular filling in bedding under and filling around pipes	m3	343		
10	Sand filling in bedding under and filling around pipes	m3	637		
	CONCRETE (STORMWATER, SUBSOIL DRAINAGE, STORMWATER DRAINAGE, SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC, SOIL DRAINAGE AND WATER SUPPLIES) (CPAP WORK GROUP 146)				
11	15MPa/19mm Concrete in encasing to not exceeding 110mm diameter horizontal pipe of a minimum thickness of 150mm around pipe, including all necessary casing	m	800		
12	15MPa/19mm Concrete in encasing to not exceeding 110mm diameter horizontal bend or junction of a minimum thickness of 150mm around fitting, including all necessary casing	No	220		
13	15MPa/19mm Concrete in thrust block (approximately 0,06 cubic metres) at bends, etc., including casing	No	132		
	Carried Forward Landscaping and Paving - 85 Units Bill No.2 - Plumbing and Drainage			R	

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	Brought Forward			R	
	SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC (CPAP WORK GROUP 171)				
	Class 6 PVC-U pipes				
14	50mm Pipes laid in trenches (trenches elsewhere)	m	4,000		
15	110mm, ditto	m	4,000		
	Extra over Class 6 PVC-U pipes for fittings				
16	50mm Long radius bend	No	88		
17	100mm Ditto	No	110		
	<u>Draw wires</u>				
18	1,6mm Galvanised steel draw wires in pipes	m	8,000		
	Precast concrete circular inspection chambers including precast concrete cover slabs (cast iron covers and frames elsewhere) and channels in benching:				
19	1000mm Diameter inspection chamber not exceeding 1m deep internally	No	40		
	Gratings, covers, etc:				
20	Type 2A 635mm diameter cast iron manhole cover and frame	No	40		
21	Lifting-key for manhole cover (handed to Employer)	No	40		
	Provisional Sum for Borehole				
22	Provide the sum of R350,000 (Three Hundred and Fifty Thousand Rands) for 1 No. borehole servicing all 85 units.		PS		350,000.00
23	Contractors Markup			%	
	Carried Forward to Summary of Section No. 6 Landscaping and Paving - 85 Units Bill No.2 - Plumbing and Drainage			R	

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	Landscaping and Paving - 85 Units			
Bill No	SECTION SUMMARY - Landscaping and Paving - 85 Units	Page No		Amount
1	Bill No.1 - Landscaping and Paving	109		
2	Bill No.2 - Plumbing and Drainage	116		
	SUBTOTAL		R	
	Carried to Final Summary Landscaping and Paving - 85 Units		R	

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Item No		Quantity	Rate	Amount
	SECTION NO. 7			
	BILL NO. 1			
	<u>DEMOLITIONS</u>			
	(CPAP WORK GROUP 104 UNLESS OTHERWISE STATED)			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	<u>View site</u>			
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
	<u>Explosives</u>			
	No explosives whatsoever may be used for alteration purposes unless otherwise stated			
	Carried Forward		R	
	Demolitions - 28 Units Bill No.1 - Demolitions			

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	Brought Forward			R	
	General				
	Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent				
	Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site				
	REMOVAL OF EXISTING WORK				
	Demolishing and removing				
1	Demolition of staff quarters, comprising concrete surface bed, external walls, internal walls, roof covering, etc including the removal of rubble complete	m2	2,253		
2	Excavation in earth not exceeding 2m deep to demolish and remove 110mm clay sewer pipe	m	560		
3	600mm diameter manholes not exceeding 1.5m deep	m3	25		
	Carried to Final Summary  Demolitions - 28 Units  Bill No.1 - Demolitions			R	

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	Demolitions - 28 Units			
Bill	SECTION SUMMARY - Demolitions - 28 Units	Page No		Amount
<b>No</b> 1	Bill No.1 - Demolitions	<b>No</b> 119		
	SUBTOTAL		R	
	Carried to Final Summary		R	
	Demolitions - 28 Units			

Item No		Quantity	Rate	Amount
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
	BILL NO.1 - EARTHWORKS			
	(CPAP WORK GROUP 104 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Nature of ground			
	The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same			
	Carried Forward Building Works - 28 Units Bill No.1 - Earthworks		R	

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Brought Forward			R	
Subterranean water				
The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same				
Carting away of excavated material				
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				
Filling and layer work materials				
References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14: 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter				
<u>Testing</u>				
Prices for filling are to include for all necessary density and other tests				
<u>Formwork</u>				
Formwork to sides of footings, bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations				
SITE CLEARANCE				
Site clearance				
Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	510		
Carried Forward Building Works - 28 Units Bill No.1 - Earthworks			R	

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**-122-** 2025/09/16

	Brought Forward			R
	REMOVAL OF TREES ETC			
	Taking out and removing, grubbing up roots and filling in holes			
2	Tree stump not exceeding 1m high, exceeding 200mm and not exceeding 500mm girth	No	2	
3	Tree stump not exceeding 1m high, exceeding 1500mm and not exceeding 2000mm girth	No	2	
	Cutting down and removing, grubbing up roots, filling in holes and compacting to 95%PERC Mod AASHTO density			
4	Hedge not exceeding 1500mm high	m	12	
5	Hedge exceeding 1500mm and not exceeding 3000mm high	m	6	
	EXCAVATION, FILLING, ETC OTHER THAN BULK			
	EXCAVATIONS ETC			
	Excavation in earth not exceeding 2m deep			
6	Trenches	m3	130	
7	Thickening under surface beds etc	m3	6	
	Extra over trench and hole excavations in earth for excavation in			
8	Soft rock	m3	13	
9	Hard rock	m3	7	
	Extra over trench and hole excavations in earth for breaking up and removing			
10	Brickwork	m3	13	
11	Unreinforced concrete	m3	13	
12	Reinforced concrete	m3	7	
	Carried Forward Building Works - 28 Units Bill No.1 - Earthworks			R

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	Brought Forward			R	
	Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 93%PERC Mod AASHTO density				
13	Not exceeding 500mm deep for placing and removing formwork to walls etc, 250mm away from excavated face	m2	120		
14	Extra over for excavation in soft rock	m2	12		
15	Extra over for excavation in hard rock	m2	6		
	Extra over all excavations for carting away				
16	Surplus material from bulk excavations and/or stock piles on site to a dumping site located by the contractor (This rate 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, and spoiled at a site located by the contractor not exceeding 10km in one direction from the site.	m3	56		
17	Extra over carting away of surplus material further than 10km in one direction from the site	m3	24		
	Risk of collapse of excavations				
18	Sides of trench and hole excavations not exceeding 1,5m deep	m2	135		
19	Sides of trench and hole excavations exceeding 1,5m deep	m2	203		
	Keeping excavations free of water				
20	Keeping excavations free of all water other than subterranean water		Item		
	FILLING ETC				
	Selected earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density				
21	Under floors, steps, pavings, etc	m3	11		
	Carried Forward Building Works - 28 Units Bill No.1 - Earthworks			R	

**-124-** 2025/09/16

	Brought Forward			R	
22	Backfilling to trenches, holes, etc	m3	55		
	Filling of coarse river sand supplied by the contractor, consolidated				
23	Under floors etc	m3	28		
24	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	263		
	WEED KILLERS, INSECTICIDES, ETC				
	Soil insecticide in accordance with SANS 5859				
25	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	263		
26	To bottoms and sides of trenches etc	m2	442		
	<u>TESTS</u>				
	Prescribed tests to determine degree of compaction or other properties of ground or filling (the following test should include travelling cost from laboratory to site within 10km in one direction to the site)				
27	"Modified AASHTO Density" test	No	4		
28	In-situ dry density test in accordance with method A10(b) of TMH1	No	4		
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units			R	
	Bill No.1 - Earthworks				

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Item No		Quantity	Rate	Amount
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
	BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT			
	(CPAP WORK GROUP 110, 111 and 114 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.  Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.  The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Carried Forward Building Works - 28 Units Bill No.2 - Concrete, Formwork and Reinforcement		R	

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Brought Forward	R	
Cost of tests		
The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)		
No-Fines concrete		
No-Fines concrete shall consist of 6 part aggregate to one part cement (1:6)		
Striking off and curing		
Concrete prices are to include for striking off and curing.		
<u>Formwork</u>		
Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before reuse		
The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself		
Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described		
Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described		
Carried Forward Building Works - 28 Units Bill No.2 - Concrete, Formwork and Reinforcement	R	

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	Brought Forward			R	
3	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES (CPAP WORK GROUP 110)				
	15MPa/19mm concrete				
1	Blinding	m3	5		
	20MPa/19mm concrete				
2	Strip footings	m3	2		
3	Surface beds on waterproofing	m3	74		
4	Thickening to surface beds	m3	3		
	UNREINFORCED CONCRETE				
	15MPa/19mm concrete				
5	Filling to cavity of hollow brick wall	m3	8		
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
6	Surface beds on waterproofing	m3	19		
7	Strip footings	m3	24		
8	Thickening to surface beds	m3	3		
	30MPa/19mm concrete				
9	Superstructure slabs	m3	54		
10	Superstructure Staircases	m3	2		
	Carried Forward			R	
	Building Works - 28 Units Bill No.2 - Concrete, Formwork and Reinforcement				

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Brought Forward			R	
Beams	m3	2		
TEST CUBES				
Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	12		
CONCRETE SUNDRIES				
Finishing top surfaces of concrete smooth with a wood float				
Surface beds, slabs, etc	m2	263		
ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP 111)				
Rough formwork to sides				
Strip footings	m2	301		
Isolated or wall beams	m2	15		
Edges, risers, ends and reveals not exceeding 300mm high or wide	m	48		
Rough formwork to soffits				
Slabs propped up exceeding 1,5m and not exceeding 3,5m high	m2	216		
Stairs with sloping soffits	m2	6		
Isolated wall beams over openings propped up exceeding 1,5m and not exceeding 3.5m high	m2	5		
MOVEMENT JOINTS ETC				
Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces				
Not exceeding 300mm high to edges of surface beds	m	120		
Carried Forward			R	
Building Works - 28 Units Bill No.2 - Concrete, Formwork and Reinforcement				
	TEST CUBES  Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)  CONCRETE SUNDRIES  Finishing top surfaces of concrete smooth with a wood float  Surface beds, slabs, etc  ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP 111)  Rough formwork to sides  Strip footings  Isolated or wall beams  Edges, risers, ends and reveals not exceeding 300mm high or wide  Rough formwork to soffits  Slabs propped up exceeding 1,5m and not exceeding 3,5m high  Stairs with sloping soffits  Isolated wall beams over openings propped up exceeding 1,5m and not exceeding 3.5m high  MOVEMENT JOINTS ETC  Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces  Not exceeding 300mm high to edges of surface beds	Beams m3  TEST CUBES  Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)  CONCRETE SUNDRIES  Finishing top surfaces of concrete smooth with a wood float  Surface beds, slabs, etc m2  ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP 111)  Rough formwork to sides  Strip footings m2  Isolated or wall beams m2  Edges, risers, ends and reveals not exceeding 300mm high or wide m  Rough formwork to soffits  Slabs propped up exceeding 1,5m and not exceeding 3,5m high m2  Isolated wall beams over openings propped up exceeding 1,5m and not exceeding 3,5m high m2  MOVEMENT JOINTS ETC  Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces  Not exceeding 3,00mm high to edges of surface beds m	Beams m3 2  TEST CUBES  Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) No 12  CONCRETE SUNDRIES  Finishing top surfaces of concrete smooth with a wood float  Surface beds, slabs, etc m2 263  ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP 111)  Rough formwork to sides  Strip footings m2 301  Isolated or wall beams m2 15  Edges, risers, ends and reveals not exceeding 300mm high or wide m 48  Rough formwork to soffits  Slabs propped up exceeding 1,5m and not exceeding 3,5m high m2 216  Stairs with sloping soffits m2 6  Isolated wall beams over openings propped up exceeding 1,5m and not exceeding 3.5m high m2 5  MOVEMENT JOINTS ETC  Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces  Not exceeding 300mm high to edges of surface beds m 120  Carried Forward  Building Works - 28 Units	Beams m3 2  TEST CUBES  Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) No 12  CONCRETE SUNDRIES  Finishing top surfaces of concrete smooth with a wood float  Surface beds, slabs, etc m2 263  ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP 111)  Rough formwork to sides  Strip footings m2 301  Isolated or wall beams m2 15  Edges, risers, ends and reveals not exceeding 300mm high or wide m48  Rough formwork to soffits  Slabs propped up exceeding 1,5m and not exceeding 3,5m high m2 6  Isolated wall beams over openings propped up exceeding 1,5m and not exceeding 3.5m high m2 5  MOVEMENT JOINTS ETC  Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces  Not exceeding 300mm high to edges of surface beds m 120  Carried Forward R  Building Works - 28 Units

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	Brought Forward			R	
	Two layers of 0,6mm galvanised steel sheets with grease in between slip joints between horizontal concrete and brick surfaces including cement mortar bed				
21	Not exceeding 300mm wide	m	16		
	Saw-cut joints				
22	4 x 50mm Saw-cut joints in top of concrete	m	120		
	REINFORCEMENT (CPAP WORK GROUP 114)				
	Mild & High tensile steel reinforcement to structural concrete work				
23	Steel bars of varying diameter	t	7.28		
	Fabric reinforcement				
24	Type 193 fabric reinforcement in concrete surface beds etc	m2	85		
25	Type 245 fabric reinforcement in concrete surface beds etc	m2	104		
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units Bill No.2 - Concrete, Formwork and Reinforcement			R	

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Item No		Quantity	Rate	Amount	
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS				
	BILL NO.3 - MASONRY				
	(CPAP WORK GROUP 116 & 118 UNLESS OTHERWISE STATED)				
	NOTE				
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.				
	<u>Preambles</u>				
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.				
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.  The Standard Preambles and the Notes in the various				
	trade bills are to apply equally to this section.				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Carried Forward		R		_
	Building Works - 28 Units Bill No.3 - Masonry				

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	Brought Forward			R	
	Hollow walls				
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole				
	Bagged and sealed walls				
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating				
	BRICKWORK				
	<u>FOUNDATIONS</u>				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar				
1	One brick walls	m2	35		
2	280mm Hollow walls of two half brick skins, including wire ties	m2	87		
	SUPERSTRUCTURE				
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in class II mortar				
3	Half brick walls.	m2	149		
4	Half brick balustrade walls	m2	9		
5	Half brick walls in beamfilling	m2	14		
6	One brick walls	m2	223		
7	280mm Hollow walls of two half brick skins, including wire ties	m2	635		
	BRICKWORK SUNDRIES				
8	Splayed mortar fillets one course high in 60mm cavities	m	160		
	Carried Forward			R	
	Building Works - 28 Units Bill No.3 - Masonry				

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	Brought Forward			R	
9	Closing 60mm cavities of hollow walls vertically with brickwork half brick wide	m	129		
10	Closing 60mm cavity of hollow wall horizontally with one course of brickwork	m	45		
11	150mm Wide sill set sloping and slightly projecting	m	25		
	Joint forming material in movement joints				
12	10mm Bitumen impregnated fibre board not exceeding 300mm wide built in vertically through brick walls	m	31		
	2,5mm Galvanised brick reinforcement				
13	75mm Wide reinforcement built in horizontally	m	1,581		
14	150mm Wide reinforcement built in horizontally	m	221		
	Prestressed fabricated concrete lintels including necessary temporary supports				
15	110 x 75mm Lintels in lengths not exceeding 3m	m	149		
	Galvanised hoop iron cramps, ties, etc				
16	32 x 1,6mm Roof tie 1,5m long with one end built into brickwork and other end fixed to timber	No	68		
	Air bricks etc				
17	229 x 152mm Clay vermin proof air brick	No	28		
	FACE BRICKWORK				
	Allow the prime cost amount amount of R 9,000.00 (Nine thousand Rand) per thousand for 'breeze block bricks' delivered to site pointed with square recessed horizontal and vertical joints				
18	Half brick walls pointed on both sides	m2	34		
	Carried Forward Building Works - 28 Units Bill No.3 - Masonry			R	

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	Brought Forward		R	
	FIBRE-CEMENT WINDOW SILLS			
	Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs etc			
19	15 x 150mm Wide sills set flat and slightly projecting m	25	;	
	Carried Forward to Summary of Section No. 8		R	_
	Building Works - 28 Units Bill No.3 - Masonry			

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em No		Quantity	Rate	Amount
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
	BILL NO.4 - WATERPROOFING			
	(CPAP WORK GROUP 120 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Waterproofing			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	Carried Forward  Building Works - 28 Units  Bill No.4 - Waterproofing		R	

**-135-** 2025/09/16

	Brought Forward			R	
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)				
1	In walls	m2	29		
2	In walls vertically at reveals	m2	36		
	One layer 375 micron orange polyethylene waterproof sheeting (SANS 952-1985 type A) sealed at laps with PVC self-adhesive tape				
3	Under surface beds	m2	189		
	Two coats "ABE dura.proof hydrokote" or similar approved flexible hydraulic micro-mortar waterproofing and protection membrane, applied in accordance with the manufacturers instruction				
4	On shower walls	m2	22		
5	On shower floors	m2	3		
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units Bill No.4 - Waterproofing			R	

**-136-** 2025/09/16

Item No		Quantity	Rate	Amount	
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS				
	BILL NO.5 - ROOF COVERINGS, ETC				
	(CPAP WORK GROUP 122, 124 &125 UNLESS OTHERWISE STATED)				
	NOTE				
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.				
	<u>Preambles</u>				
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.				
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.				
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.				
	Carried Forward  Building Works - 28 Units  Bill No.5 - Roof Coverings, etc		R		

-137- 2025/09/16

Brought Forward		R	
Guarantee			
<ol> <li>The contractor will be required to provide an Engineer and a written guarantee, stating that:</li> <li>The roof sheeting is of the specified thickness.</li> <li>The client is indemnified against any defects, including colour deterioration for a minimum period of 5 years.</li> <li>All roof coverings and side cladding are to be installed to comply with SANS Code of Practice 0237 where applicable. All roof sheeting shall be laid under a 5 year guarantee for site workmanship and water tightness.</li> </ol>			
PROFILED METAL SHEETING AND ACCESSORIES (CPAP WORK GROUP 124)			
Global Roofing Solutions 700mm cover Klip-Lok 700™ profile roll-formed in continuous lengths from ZINCALUME® AZ150 coated steel G550 0.53mm (Heavy Industrial) with a Clean COLORBOND finish to one side and a standard backing coat, Shadow Grey to other, fixed to timber purlin using KL700 plus clips fixed with , all following the manufacturer's specifications by a GRS approved contractor. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer.			
Roof covering with pitches not exceeding 25 degrees m2	250		
0,53mm AZ150 Zincalume steel sheet accessories to preceding roof covering and side cladding with clean Colorbond finish in approved standard colour on one side and a standard backing coat to the reverse side			
Ridge cappings 550mm girth bent and notched to suit roof profile including serrated closers and poly-closers m	24		
Gable Trim (Barge Flash) 580mm girth 3 times bent. m	21		
Carried Forward Building Works - 28 Units Bill No.5 - Roof Coverings, etc		R	_
Dill No.3 - Nool Coverings, etc			

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3

-138- 2025/09/16

	Brought Forward			R	
	ROOF AND WALL INSULATION (CPAP WORK GROUP 122)				
	"Sisalation Fireshield NC 502 D/S" or similar approved double sided aluminium foil radiant barrier				
4	Insulation sheeting fixed to underside of rafters (at approximately 1200mm centres) with 150mm stapled laps including galvanised PVC coated steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	250		
	Carried Forward to Summary of Section No. 8			R	
	Building Works - 28 Units Bill No.5 - Roof Coverings, etc				

-139- 2025/09/16

	Quantity	Rate	Amount
SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
BILL NO.6 - CARPENTRY AND JOINERY			
(CPAP WORK GROUP 126 UNLESS OTHERWISE STATED)			
NOTE			
The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
<u>Preambles</u>			
The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Carried Forward  Building Works - 28 Units  Bill No.6 - Carpentry and Joinery		R	

**-140-** 2025/09/16

	Brought Forward			R	
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
	All sections of timber to be built into brickwork of concrete to be wrapped in Gunplast and the cost is deemed to be included in the relevant item.				
	Tenderers should include silicone sealant between skirting and finished surfaces of walls and floors in their price				
	<u>Joinery</u>				
	Descriptions of frames shall be deemed to include frames, transoms, rails, etc				
	Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
	All exposed timber to be treated with preservative to combat fungus as prescribed by the Forestry Act 1968 (Act 72 of 1968).				
	PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC.				
	DESIGN, SUPPLY AND INSTALL				
1	Roof construction for double pitched roof to Terrace Block building with gable ends on both sides approximate size 23,550.00 x 10,880.00m on plan and approximately 7,400.00m above NGL high overall including wall plates, trusses at approximately 1 025mm centres and 50 x 76mm purlins/battens at approximately 1,200m centres for roof covering, complete.	No	1		
	EAVES, VERGES, ETC				
	Wrought meranti				
2	16mm Quadrant beads	m	47		
	Carried Forward			R	
	Building Works - 28 Units Bill No.6 - Carpentry and Joinery				

**-141-** 2025/09/16

	Brought Forward			R
	Medium density plain fibre-cement flat sheets			
3	6mm Eaves or verge soffit covering including 38 x 38mm sawn softwood branders along edges, along centre and at 450mm centres across sheets	m2	24	
	Medium density plain fibre-cement fascias and barge boards			
4	12 x 225mm Fascias and barge boards, including galvanised steel H-profile jointing strips	m	47	
	FLOORS AND SKIRTINGS			
	<u>SKIRTINGS</u>			
	Wrought meranti			
5	20 x 70mm Skirtings, plugged	m	140	
6	21 x 140mm Decorative moulded skirtings plugged	m	171	
	TIMBER DOORS, WINDOWS, ETC			
	DOORS ETC			
	Semi-solid flush doors with 3,2mm plain hardboard covering on both sides, hung to steel or timber frames			
7	40mm Door 813 x 2032mm high	No	16	
8	Extra over for 300 x 300mm framed opening for metal louvre unit (louvre unit elsewhere)	No	12	
	Hollow core flush doors with commercial veneer, hung to slide			
9	40mm Door 813 x 2032mm high	No	4	
	Carried Forward			R
	Building Works - 28 Units Bill No.6 - Carpentry and Joinery			

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	Brought Forward		R	
	FRAMES ETC			
	FRAMED FRAMES, MULLIONS, TRANSOMS, ETC			
	Wrought meranti			
10	69 x 94mm Rebated and angle rounded frame for 813 x 2032mm high door No	16		
	Carried Forward to Summary of Section No. 8		R	
	Building Works - 28 Units Bill No.6 - Carpentry and Joinery			

-143- 2025/09/16

	Quantity	Rate	Amount
SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
BILL NO.7 - CEILINGS			
(CPAP WORK GROUP 129 UNLESS OTHERWISE STATED)			
NOTE			
The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
<u>Preambles</u>			
The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Building Works - 28 Units Bill No.7 - Ceilings		R	

**-144-** 2025/09/16

	Brought Forward			R	ļ
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
	<u>Ceilings</u>				
	Unless otherwise described ceilings shall be deemed to be horizontal				
	Bulkheads				
	Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features				
	Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings				
	Unless otherwise described bulkheads shall be deemed to be horizontal along the length				
	Steel components				
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121				
	<u>Openings</u>				
	Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc				
	CEILING TIMBERS, BEADS, INSULATION, ETC				
	"Knauf" insulation				
1	135mm Thick Glasswool thermal insulation laid on top of brandering between roof timbers, etc.	m2	177		
	Carried Forward			R	
	Building Works - 28 Units Bill No.7 - Ceilings				

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	Brought Forward			R	
	NAILED UP CEILINGS				
	SUPPLEMENTARY PREAMBLES				
	<u>Openings</u>				
	Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc				
	6,4mm Gypsum plasterboard with galvanised steel jointing strips or 20mm half round wrot Meranti cover strips over joints				
2	Ceilings nailed to 38 x 50mm sawn softwood brandering (brandering elsewhere measured) at 300mm centres generally in both direction at joints and edges of boards	m2	177		
3	Extra over ceiling for 610 x 610mm trap door of 38 x 50mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in	No	2		
	opening, including necessary trimmers around				
4	Opening for 100mm diameter downlighter	No	12		
5	Rectangular bulkheads against wall 400mm wide x 200mm high, suspended not exceeding 1m below timber rafters at approximately 1200mm centres	m	20		
	Polystyrene cornices				
6	100 x 100mm Coved cornice.	m	210		
	Carried Forward Building Works - 28 Units Bill No.7 - Ceilings			R	

**-146-** 2025/09/16

	Brought Forward	R	
SUSPENDED CEILINGS			
SUPPLEMENTARY PRE	AMBLES		
Proprietary suspended	ceilings		
Hangers, suspension gr to be in accordance with recommendations	ids, "lay-in" panels, etc are n the manufacturers'		
the suspension grid des be made in the rates acc inclusive of any flexibili	of the same dimensions as scribed and allowance must cordingly for their support by in setting out that may be have not been deducted and		
Flush plastered gypsum ceilings	plasterboard suspended		
boards screwed to and suspension grid consist centres and galvanised 400mm centres and with	ing of main tees at 1 200mm steel capped cross tees at a tape fixed over joints and gypsum plaster trowelled to		
The grid shall be susper galvanised steel L-section centres, securely shot-proconcrete, steel or wood.	on hangers at suitable inned or screwed to		
Flush plastered gypsum bulkheads	plasterboard suspended		
Building Works - 28 Units Bill No.7 - Ceilings	Carried Forward	R	

-147- 2025/09/16

	Brought Forward			R	
	Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer.				
	Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc				
	9.5mm Gypsum plasterboard on "Donn QRC T37K" or similar approved suspension grid including hangers etc, with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface				
7	Ceilings suspended not exceeding 1m below concrete soffits	m2	170		
8	Opening for 100mm diameter downlighter	No	12		
9	Rectangular bulkheads against wall 1000mm wide x 300mm high, suspended not exceeding 1m below concrete soffits	m	25		
	Cornices, perimeter trims, etc to suspended ceilings				
10	Shadowline wall angle trim, plugged	m	210		
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units Bill No.7 - Ceilings			R	

-148- 2025/09/16

	Quantity	Rate	Amount
SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
BILL NO.8 - FLOOR COVERINGS, ETC			
(CPAP WORK GROUP 130 UNLESS OTHERWISE STATED)			
NOTE			
The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
<u>Preambles</u>			
The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
<u>Fixing</u>			
Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc			
Carried Forward  Building Works - 28 Units  Bill No.8 - Floor Coverings, etc		R	

**-149-** 2025/09/16

Brought Forward	R	
Surface preparation, priming, curing, cleaning etc		
Descriptions of the items below are deemed to include all necessary preparation, priming, mixing, curing, cleaning etc as prescribed by the manufacturers of the various products		
Prime Cost (PC) Sums		
Prime Cost (PC) Sums means an amount of money provided in the bills of quantities for material and goods to be obtained from a supplier nominated by the architect and to be fixed by the contractor		
The prime cost amount shall be omitted from the contract sum and the amounts actually paid by the contractor in respect of the purchase of the nett quantity of such items including delivery to site shall be added to the contract sum		
The contractor has to allow for labour, profit and waste in his rate over and above the PC amount		
Installation by an Approved Applicator		
The installation of the floor coverings is to be executed by an approved applicator (subcontractor)		
Carried Forward  Building Works - 28 Units  Bill No.8 - Floor Coverings, etc	R	

**-150-** 2025/09/16

Brought Forward	R	
Installation and Preparation of Sub-floor		
Vinyl floor coverings shall be installed in accordance with manufacturer's recommendations. Sub-floors must be smooth, hard, clean, level and dry before laying commences.		
Where existing vinyl floor coverings have been uplifted, then all bitumen adhesive must be removed by means of a scraper or any other suitable mechanical device.		
Dirt and dust must be removed by sweeping or, preferably by vacuum.		
All grease, oil patches and any oil-based paint must be removed with suitable paint strippers or degreasing compounds. Once grease has been removed then the sub-floor must be washed to remove any stripper or residue and then allowed to dry thoroughly.		
All sub floors must be tested for moisture content with a hygrometer or Trammex prior to installation.		
Vinyl floor coverings must be allowed to relax for 24 hours in a uniform room temperature between 18 degrees C and 27 degrees C prior to installation.		
Vinyl floor coverings are to be fixed with adhesive as recommended by the manufacturer and in accordance with the manufacturers instructions.		
Vinyl floor coverings should be hot seam welded using welding rod as recommended by the manufacturer. It is essential that during the course of the installation the material be rolled in both directions with an articulated 68kg three sectional metal floor roller.		
Carried Forward  Building Works - 28 Units  Bill No.8 - Floor Coverings, etc	R	

-151- 2025/09/16

	Brought Forward			R	
	FLOOR COVERINGS				
	228 x 1219 x 3mm "FloorWorX" planks including underlay (Allow prime cost of R375,00/m² for the supply and deliver to site) laid to screeded floors (screeds elsewhere measured) including fitting, cutting and circular cutting all in accordance with the manufacturers specification.				
1	On floors	m2	67		
	8mm Engineered laminate floor planks including rubber underlay (Allow prime cost of R300,00/m² for the supply and deliver to site) laid to screeded floors (screeds elsewhere measured) including fitting, cutting all in accordance with the manufacturers specification.				
2	On floors	m2	144		
	Carried Forward to Summary of Section No. 8			R	
	Building Works - 28 Units Bill No.8 - Floor Coverings, etc				

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Item No		Quantity	Rate	Amount	
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS				
	BILL NO.9 - IRONMONGERY				
	(CPAP WORK GROUP 132 UNLESS OTHERWISE STATED)				
	NOTE				
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.				
	<u>Preambles</u>				
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.				
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.				
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.				
	Carried Forward Building Works - 28 Units Bill No.9 - Ironmongery		R		

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Brought Forward			R	
Proprietary items				
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
On request returnable samples are to be provided to the Project Manager for consideration				
Finishes to ironmongery				
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled Sn Satin Nichol GE Grey enamelled AN Anodised natural AA Anodised Aluminium AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded S Sil				
HINGES, BOLTS, ETC				
"Yale" or similar approved				
100 x 76mm Brass Stainless Steel Butt Hinge (Product Code 1075472) Pa	rs	24.0		
Carried Forward Building Works - 28 Units Bill No.9 - Ironmongery			R	

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**-154-** 2025/09/16

	Brought Forward			R	Ī
	LOCKS				
	"Union" or similar approved				
2	CP Two lever upright lock CODE 22311-7615.	No	16		
3	SS 8mm "22314" Bathroom Lock	No	4		
	HANDLES				
	"Union" or similar approved				
4	Waterbok Lever Handle on Rose AL6W00-06AS	Pairs	20.0		
	DOOR CLOSERS				
	"Union" or similar approved				
5	"744P DC744 EN1-6 PA DA" Door closer	No	4		
	SLIDING GEAR				
	"Hillaldam" or similar approved				
6	Domestic Sliding Door Kit	No	4		
	SUNDRIES				
	Coir door mats laid loose in mat surround				
7	1000 x 1500 x 38mm Door mat	No	4		
	"Union" or similar approved				
8	AL8722AS Hat & Coat Hook with rubber buffer.	No	8		
	BATHROOM FITTINGS				
	"Solid" or similar approved				
9	19mm Diameter 900mm long chromium plated shower rail with chromium plated shower rail bracket plugged	No	8		
	Tall Man official placed officers fall bracket plagged				
					$\vdash$
	Carried Forward to Summary of Section No. 8			R	<u> </u>
	Building Works - 28 Units Bill No.9 - Ironmongery				

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ltem No		Quantity	Rate	Amount
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
	BILL NO.10 - METALWORK			
	(CPAP WORK GROUP 136 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Descriptions of bolts, anchors, etc			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Carried Forward Building Works - 28 Units Bill No.10 - Metalwork		R	

**-156-** 2025/09/16

	Brought Forward	R	
	tems described as "holed for bolt(s)" shall be deemed o exclude the bolts unless otherwise described		
i	tems described as "plugged" shall be deemed to nclude screwing to fibre, plastic or metal plugs at not exceeding 600mm centres		
1	Aluminium doors, windows, etc		
	Doors and windows shall comply with AAAMSA design criteria		
1	Glazing shall comply with SAGGA regulations.Glass shall be as described in the headings to window descriptions. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings		
t	Doors and windows shall be supplied with protective ape and plastic and shall be removed only once surrounding trades have been completed		
	The following certificates shall be provided prior to commencement of site work:		
3	<ul> <li>A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product</li> <li>A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively</li> <li>A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process</li> <li>A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked</li> <li>A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degredation for a period of not less than five years</li> </ul>		
	Carried Forward Building Works - 28 Units Bill No.10 - Metalwork	R	

-157- 2025/09/16

	Brought Forward			R	
	GALVANISED STEEL POWDER COATED GATES, SCREENS, ETC	•			
	"Trellidoor" or similar approved galvanised steel powder coated security gates, with and including slam lock fixed to brickwork or concrete, for opening				
1	Size 1000 x 2100mm high	No	4		
2	Size 3000 x 2100mm high	No	4		
	POWDER COATED ALUMINIUM WINDOWS, DOORS, ETC BY AAAMSA MEMBERS ONLY AND PROVIDE AAAMSA PERFORMANCE TEST CERTIFICATE				
	Casement pre-glazed top hung aluminium windows complete with ironmongery and including setting up, building in, filling back of frame with cement mortar, sealing around with silicone, etc				
3	Window type PT612 size 600 x 1200mm glazed with 6.38mm clear laminated safety glass.	No	8		
4	Window type PT615 size 600 x 1500mm glazed with 6.38mm clear laminated safety glass.	No	4		
5	Window type PT1518 size 1500 x 1800mm glazed with 6,38mm clear laminated safety glass.	No	12		
	Pre-glazed aluminium hinged doors, sidelights, etc complete with ironmongery and including setting up, building in, filling back of frame with cement mortar, sealing around same with silicone, etc				
6	Door type SHG1R2, size 900 x 2100mm high overall	No	4		
7	Stable door type SDG1R1, size 900 x 2100mm high overall	No	5		
	Building Works - 28 Units Bill No.10 - Metalwork			R	

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	Brought Forward			R	
	Palace pre-glazed aluminium sliding doors, sidelights, etc complete with ironmongery and including setting up, building in, filling back of frame with cement mortar, sealing around same with silicone, etc				
8	Door type SD3021OXXO, size 3000 x 2100mm high overall	No	4		
	STEEL BURGLAR BARS				
	Burglar bars comprising of 25 x 5mm flat horizontal bars at 110mm centres and 25 x 5mm flat vertical bars at 300mm centres, bolted to walls with one-way countersunk bolts:				
9	Ditto, but 600 x 1200mm.	No	8		
10	Ditto, but 600 x 1500mm	No	4		
11	Ditto, but 1500 x 1800mm	No	12		
	ALUMINIUM LOUVRE UNITS				
	POWDER COATED HORIZONTAL ALUMINIUM LOUVRE UNITS				
	"Trox" or similar approved fixed louvre units fixed to brickwork or concrete				
12	Standard louvre unit type AGS-T, 600 x 600mm high	No	4		
	SHOWER CUBICLE PANELS AND DOORS				
	Powder coated aluminium shower cubicle panels and doors with frames, sliding gear, pivot hinges, cleats, stops, etc. and 6mm toughened clear safety glass, plugged to tiled walls and sealed with silicone sealant (sizes to be verified on site):				
13	Fixed panel approximate size 300 x 1800mm high	No	4		
14	Fixed panel approximate size 800 x 1800mm high	No	4		
15	Sliding door approximate size 960 x 1800mm high	No	4		
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units Bill No.10 - Metalwork			R	

**-159-** 2025/09/16

Item No		Quai	ntity	Rate	Amount	
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS					
	BILL NO.11 - PLASTERING					
	(CPAP WORK GROUP 142 UNLESS OTHERWISE STATED)					
	NOTE					
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.					
	<u>Preambles</u>					
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.					
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.					
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.					
	SCREEDS					
	Screeds wood floated, on concrete					
1	25mm Thick on floors and landings	m2	347			
2	25mm Thick on treads and risers of stairs including reedings	m2	4			
	Carried Forward  Building Works - 28 Units  Bill No.11 - Plastering			R		

**-160-** 2025/09/16

	Brought Forward			R
	GRANOLITHIC			
	Untinted granolithic, on concrete			
3	30mm Thick on floors and landings	m2	11	
	INTERNAL PLASTER			
	Cement plaster wood floated for tiles, on brickwork			
4	On walls	m2	294	
5	On narrow widths not exceeding 300mm wide	m2	5	
	Cement plaster steel trowelled, on brickwork			
6	On walls	m2	840	
7	On narrow widths not exceeding 300mm wide	m2	20	
	Gypsum skim plaster finishing coat on plastered walls			
8	On walls	m2	840	
9	On ceilings	m2	177	
10	On narrow widths not exceeding 300mm wide	m2	20	
	EXTERNAL PLASTER			
	Cement plaster wood floated, on brickwork			
11	On walls	m2	463	
12	On balustrade walls	m2	18	
13	On narrow widths not exceeding 300mm wide	m2	20	
14	On sloping top, front edge and projecting soffit of sills 300mm girth	m	25	
	Rough-cast plaster, on brickwork			
15	On walls	m2	70	
	Carried Forward Building Works - 28 Units Bill No.11 - Plastering			R

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	Brought Forward			R	
16	On narrow widths not exceeding 300mm wide	m2	7		
	AIR GRATINGS				
17	235 x 157mm Cast plaster or white plastic plain pattern air grating fixed flush with plaster face	No	28		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
18	3 x 25mm Flat section galvanised mild steel dividing strip set on edge in screed between different floor finishes	m	13		
	Carried Forward to Summary of Section No. 8			R	
	Building Works - 28 Units Bill No.11 - Plastering			'`	

**-162-** 2025/09/16

	Quan	tity Rate	Amount
SECTION NO. 8 - BUILDING WORKS UNITS	<u>- 28</u>		
BILL NO.12 - TILING			
(CPAP WORK GROUP 142 UNLESS OTHERWISE STATED)			
NOTE			
The use of trade names is an indication of a standard acceptable to the Project Manager other equal alternative product / brand may with prior written approval of the Project Ma	. Any be used		
<u>Preambles</u>			
The "Construction Works: Specifications: Gene Specification (PW371-A) Edition 2.1" and "Con Works: Specifications: Particular Specification (B) Edition 2.2" obtainable on the Public Works http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2. 2.2.2 or from the Departmental Project Manage should be read in support and extend the abbre bills of quantities descriptions by inter alia refer SANS construction standards.	struction PW371- Website:  1 and r/Leader eviated		
Users are to ensure that the abbreviated descr when read in conjunction with the applicable m system, represents the full description by exten abbreviated bills of quantities descriptions and/ inserting appropriate preambles or specification	easuring ding the or by		
The Standard Preambles and the Notes in the trade bills are to apply equally to this section.	various		
<u>Patterns</u>			
Unless otherwise described, tiles shall be laid v	vith		
Carrie Building Works - 28 Units	d Forward	R	
Bill No.12 - Tiling			

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Brought Forward	R	
<u>Fixing</u>		
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding		
Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat		
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles		
<u>Repairs</u>		
Repairs to damaged areas in the existing concrete surface bed or slab is to be done using "TAL Superscreed"		
Grouting joints		
Joints to be 3 to 5mm maximum width		
Prime Cost (PC) Sums		
Prime Cost (PC) Sums means an amount of money provided in the bills of quantities for material and goods to be obtained from a supplier nominated by the architect and to be fixed by the contractor		
The prime cost amount shall be omitted from the contract sum and the amounts actually paid by the contractor in respect of the purchase of the nett quantity of such items including delivery to site shall be added to the contract sum		
The contractor has to allow for labour, profit and waste in his rate over and above the PC amount		
Carried Forward	R	
Building Works - 28 Units Bill No.12 - Tiling		

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	Brought Forward			R	
	WALL TILING				
	Allow the prime cost amount of R250/m2 (Two hundred and Fifty Rand) for ceramic tiles not exceeding 300 x 300mm for the supply and delivery to site), fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout				
1	On walls	m2	192		
2	On walls in isolated panels, splashbacks, etc not exceeding 1m <sup>2</sup>	m2	51		
3	On narrow widths not exceeding 300mm	m2	19		
	FLOOR TILING				
	Allow the prime cost amount of R300/m2 (Three hundred rand) for full bodied porcelain floor tiles not exceeding 600 x 600mm the supply and delivery to site), fixed with adhesive to screed (screed elsewhere) and flush pointed with grout				
4	On floors and landings	m2	137		
5	On narrow widths not exceeding 300mm wide	m2	14		
6	Skirting 100mm high of cut tiles	m	48		
	SUNDRIES				
	"M-Trim" or similar approved aluminium dividing strips				
7	5mm Straight edge trim (code ASE050)	m	14		
8	12mm Straight edge trim (code ASE120)	m	10		
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units Bill No.12 - Tiling			R	

**-165-** 2025/09/16

tem No		Quantity	Rate	Amount
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
	BILL NO.13 - PLUMBING AND DRAINAGE			
	(CPAP WORK GROUP 146 and 148 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Supplementary Preambles			
	uPVC pipes and fittings:			
	Soil, waste and vent pipes and fittings shall be solvent weld jointed			
	Carried Forward Building Works - 28 Units Bill No.13 - Plumbing and Drainage		R	

**-166-** 2025/09/16

Brought Forward	R	
Copper pipes:		
Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.  All pipes that are not chased on brickwork shall be tagged.		
Reducing fittings		
Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained		
Wire gratings		
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings		
Exposed concrete surfaces		
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster		
Flush pans		
Flush pans shall have straight or side outlets and "P" or "S" traps as necessary		
Carried Forward  Building Works - 28 Units  Bill No.13 - Plumbing and Drainage	R	

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			II	
m	47			
No	12			
No	8			
m	43			
No	8			
No	8			
No	4			
		I	R	
	No No m No	No 12 No 8  m 43 No 8 No 8	No 12 No 8  m 43 No 8 No 8 No 4	No 12 No 8  m 43 No 8 No 8

**-168-** 2025/09/16

	Brought Forward			R	
	SANITARY FITTINGS				
	"Franke" or similar approved				
8	1200 x 535mm "Trendline 721" double end bowl sink fixed to countertop with clear silicone	No	4		
	White glazed vitreous china fittings including assembling and fixing in position, expanding bolts and mortices in brick or concrete walls, connecting up, etc.				
9	470 x 415mm, "Kite" white vitreous china corner basin (code 700100WH) with one taphole, including integrated overflow and chainstay	No	4		
10	495 x 430 x 190mm, "Cobra shelter" white vitreous china basin (code CSHBAWH2-6DT01) with one taphole, including integrated overflow.	No	4		
11	"Cobra Welcome" Close coupled toilet suite. Top, dual flush capability with 3L and 6L flush available. Box rim. Package cistern and cistern fittings, pan, seat and cover, connector and installation manual. Cistern manufactured with left hand side inlet hole only as per European standard.	No	8		
	"Libra" or similar approved:				
12	1 000 x 1 000 x 150mm "Cola 90°" white acrylic shower tray, set in cement mortar bedding and pointed all around with mildew resistant silicon sealant	No	4		
13	1100 X 1530 X 790mm "Libra Petra" corner built-in bath	No	4		
	WASTE UNIONS ETC				
	"Cobra" Watertech				
14	32mm "302-32" Slotted Basin waste	No	8		
15	38mm "316" Sink waste union	No	4		
16	"309-32" Anti Theft Plug fitted to unslotted basin waste (waste elsewhere)	No	8		
	Carried Forward Building Works - 28 Units Bill No.13 - Plumbing and Drainage			R	

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	Brought Forward			R	
17	50mm Brass shower waste with 75mm diameter chrome plated shower grating (VA3.334-4)	No	4		
18	40mm CP "318" Bath waste unslotted clicker.	No	4		
	<u>PVC</u>				
19	50mm Deep seal P-trap	No	4		
	"Franke" or similar approved				
20	Spazio 2 plumbing kit	No	4		
	"Cobra Watertech"				
21	32mm "345/50 CP" bottle trap	No	8		
22	38mm "373" Shower P-trap with chrome plated grating	No	4		
	TAPS, VALVES, ETC				
	<u>Brass</u>				
23	22mm Stopcock	No	8		
	"Cobra" or similar approved				
24	15mm Chrome plated angle regulating valve with 350mm long flexible service connection (product code 832/350F)	No	24		
25	15mm Chrome plated 'Star' underwall F x F stoptap (product code FSTCF2C1-7FT01)	No	16		
26	Chrome Plated Nile Basin Mixer NL-951 (Product Code FBN1D1NI-0GT0426)	No	8		
27	Chrome Plated Nile Deck Type Sink Mixer NL-970 (Product Code FBN1D1NI-0GT0426)	No	4		
28	Nile exposed bath mixer (no hand shower) single lever with diverter (Product Code FBHEW2NI-0GT0426)	No	4		
29	15mm Rough brass hose bibtap with 20mm BSP hose union (product code 108-15)	No	4		
	Carried Forward Building Works - 28 Units Bill No.13 - Plumbing and Drainage			R	

**-170-** 2025/09/16

	Brought Forward			R
	"Grohe" or similar approved			ii
30	Tempesta cosmopolitan 100 head shower set (Product Code G-26090001)	No	4	
31	BauEdge Single-Lever Shower Mixer (Product Code G-29040001)	No	4	
	SANITARY PLUMBING			
	PVC-U soil and vent pipes			
32	40mm Pipes	m	48	
33	50mm Pipes	m	72	
34	Not exceeding 50mm pipes chased into brickwork (pipe elsewhere)	m	36	
	Extra over PVC-U soil and vent pipes for fittings			
35	50mm "GI Two-Way" vent valve.	No	8	
36	50mm BSP adaptor	No	8	
37	110mm Pan connector	No	8	
38	40mm Bend or junction	No	12	
39	50mm Bend or junction	No	18	
40	110mm Bend or junction	No	8	
	WATER SUPPLIES			
	Pex-Al-Pex or equal approved multilayer pipe for hot water & heating with press fittings			
41	15mm Pipe and fixing to walls, floors, in roofs, soffit of concrete slab, in chases (including chases), in concrete, etc.	m	175	
42	20mm Pipes, ditto	m	116	
	Carried Forward			R
	Building Works - 28 Units Bill No.13 - Plumbing and Drainage			

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	Brought Forward			R	
	Extra over press fittings				
43	16mm Fittings	No	52		
44	20mm Fittings	No	35		
	Class 2 copper pipes with brass compression couplings				
45	22mm Pipe,Pipe and fixing to walls, floors, in roofs, soffit of concrete slab, in chases (including chases) including brown paper lagging, in concrete, etc.	m	87		
	Extra over Class 2 copper pipes for brass compression fittings				
46	22mm Fittings	No	26		
	Brass fittings including couplings to copper				
47	22mm Hose bibtap as Cobra 108 including wallplate elbow plugged to wall	No	4		
48	15mm Stopcock as Cobra 131	No	6		
49	22mm Non-return valve	No	4		
50	22mm Pressure reducing valve	No	4		
51	22mm In-line strainer	No	4		
52	22mm Vacuum breaker	No	8		
53	22mm Automatic air vent/valve	No	4		
54	22mm Pressure safety valve	No	4		
55	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	4		
56	150l Electric Geyser 400kPa horizontally mounted with TP Safety Valve installed complete, including brass pressure reducing/expansion relieve valve, No.2 vacuum breaker and connecting to supply and outlet pipes and electrical supply	No	4		
	Carried Forward Building Works - 28 Units Bill No.13 - Plumbing and Drainage			R	

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	Brought Forward			R	
57	Drip Tray to suit 150l HWC, including 3m long 40mm uPVC overflow pipe	No	4		
58	Insulation Blanket for 150I HWC	No	4		
59	Supply and Install "Alliance ALLHT35R134" 3.5 kW Heat Pump complete, including controller, interconnecting piping and cabling, including galvanised brackets	No	4		
	FIRE APPLIANCES ETC				
60	4,5Kg dry chemical powder fire extinguisher plus painted back board	No	4		
	PIPE INSULATION				
	Thermaflex Preformed Polyethylene foam lagging				
61	Thermaflex preformed polyethylene foam lagging or similar approved insulation wrapped around 15mm pipe and fittings	m	52		
62	Ditto, but around 22mm pipe	m	78		
	TESTING				
63	Test hot & cold water pipe system		Item		
64	Test waste pipe system		Item		
65	Supply and handing over of detailed as-built drawings of the plumbing and drainage works as per the approved design and supply provided		Item		
					$\vdash$
	Carried Forward to Summary of Section No. 8			R	L
	Building Works - 28 Units Bill No.13 - Plumbing and Drainage				

**-173-** 2025/09/16

		Quantity	Rate	Amount
SECTION NO. 8 - BUILDING WOUNITS	ORKS - 28			
BILL NO.14 - ELECTRICAL WO	<u>RK</u>			
(CPAP WORK GROUP 160 UNL OTHERWISE STATED)	<u>ESS</u>			
<u>Preambles</u>				
The "Construction Works: Specifications Specification (PW371-A) Edition 2.1" an Works: Specifications: Particular Specifi B) Edition 2.2" obtainable on the Public http://www.publicworks.gov.za/ under "F Documents; Consultants Guidelines"; Ite 2.2.2 or from the Departmental Project I should be read in support and extend the bills of quantities descriptions by inter all SANS construction standards.	d "Construction cation (PW371- Works Website: forms & em 2.2.1 and Manager/Leader e abbreviated			
Users are to ensure that the abbreviated when read in conjunction with the applic system, represents the full description be abbreviated bills of quantities description inserting appropriate preambles or specific	able measuring y extending the ns and/or by			
The Standard Preambles and the Notes trade bills are to apply equally to this se				
Supplementary Preambles				
Specifications, drawings, etc.:				
Tenderers are referred to the specificati accompanying these bills of quantities for work, for the full descriptions of the followhich are to be read and priced in conjusaid specification	or the electrical wing items			
Building Works - 28 Units Bill No.14 - Electrical Work	Carried Forward		R	

**-174-** 2025/09/16

Brought Forward	R	
Distribution boards, etc:		
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings		
Switches, socket outlets, etc:		
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates		
Light fittings:		
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described		
<u>Liaison with Local Authority</u>		
Liaise with the Local Authority with regard to compliance with the National Building Regulations, Local By-laws and any other Statutory Regulations.		
Concurrent with Building Work:		
The electrical work in this service shall be carried out concurrently with the building work. The electrical contractor shall liaise closely with the building contractor		
Handing over existing materials:		
Where certain materials or articles are described as to be handed over by the contractor to the Department's Representative or Representative/Agent such materials or articles shall be properly stored by the contractor until handing over thereof. The contractor must obtain an official receipt listing the materials or articles and dates of handover. If the contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof which amount will be deducted from any monies due to the contractor.		
Carried Forward  Building Works - 28 Units  Bill No.14 - Electrical Work	R	_

**-175-** 2025/09/16

	Brought Forward		R	
	ELECTRICAL INSTALLATION			
	Budgetary allowance for the complete electrical installation including power skirting or rails, light fittings, etc and builder's work but excludes primary transformers			
1	Wiring and accessories	PS		140,000.00
2	Lighting and accessories	PS		140,000.00
3	Socket outlets	PS		24,000.00
4	Isolators	PS		14,000.00
5	Distribution boards complete with essential and non- essential switchgear and accessories	PS		22,000.00
6	Labelling sum	PS		12,000.00
7	Intruder alarm detection	PS		60,000.00
8	Intercom/access control	PS		30,000.00
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units Bill No.14 - Electrical Work		R	

**-176-** 2025/09/16

Item No		Quantity	Rate	Amount
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
	BILL NO.15 - MECHANICAL WORK			
	(CPAP WORK GROUP 170 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	FANS (Supply and Install, including anti vibration mountings, canvas collars and brackets)			
1	Supply and install bathroom extraction fans "Xpelair BX100C" or similar complete with ducting and grilles as supplied.	8		
	Carried Forward Building Works - 28 Units Bill No.15 - Mechanical Work		R	

**-177-** 2025/09/16

	Brought Forward			R	
	WEATHER LOUVRES AND DOOR GRILLES ("AGS TROX")				
2	Door grill, 300x300	No	12		
2 3		No No	12		
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units Bill No.15 - Mechanical Work			R	_

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		Quantity	Rate	Amount
	SECTION NO. 8 - BUILDING WORKS - 28 JNITS			
B	BILL NO.16 - GLAZING			
	CPAP WORK GROUP 150 UNLESS OTHERWISE STATED)			
N	IOTE			
s o	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
<u>P</u>	<u>Preambles</u>			
S W B h D 2 sl	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Vorks: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated oills of quantities descriptions by inter alia referring to SANS construction standards.			
w sy a	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by appropriate preambles or specifications.			
- 1	The Standard Preambles and the Notes in the various rade bills are to apply equally to this section.			
<u> </u>	Float glass			
	The term "float glass" is used for monolithic annealed plass			
	Carried Forward Suilding Works - 28 Units Sill No.16 - Glazing		R	
	-			

**-179-** 2025/09/16

	Brought Forward			R	
	Laminated glass				
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
	TOPS, SHELVES, DOORS, MIRRORS, ETC				
	5mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete				
1	Mirror 600 x 900mm high with four screws	No	4		
2	Mirror 800 x 1200mm high with six screws	No	4		
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units			R	_
	Bill No.16 - Glazing				

**-180-** 2025/09/16

	Qı	uantity	Rate	Amount
SECTION NO. 8 - BUILDING WORK UNITS	<u>S - 28</u>			
BILL NO.17 - PAINTWORK				
(CPAP WORK GROUP 152 UNLESS OTHERWISE STATED)	<u>i</u>			
NOTE				
The use of trade names is an indication of standard acceptable to the Project Manag other equal alternative product / brand material with prior written approval of the Project I	er. Any ny be used			
<u>Preambles</u>				
The "Construction Works: Specifications: Ge Specification (PW371-A) Edition 2.1" and "Co Works: Specifications: Particular Specification B) Edition 2.2" obtainable on the Public Work http://www.publicworks.gov.za/ under "Forms Documents; Consultants Guidelines"; Item 2.2.2.2 or from the Departmental Project Mana should be read in support and extend the abbills of quantities descriptions by inter alia ref SANS construction standards.	onstruction on (PW371- s Website: & 2.1 and ger/Leader oreviated			
Users are to ensure that the abbreviated des when read in conjunction with the applicable system, represents the full description by ext abbreviated bills of quantities descriptions an inserting appropriate preambles or specificati	measuring ending the d/or by			
The Standard Preambles and the Notes in the trade bills are to apply equally to this section				
Carr Building Works - 28 Units	ied Forward		R	
Bill No.17 - Paintwork				

-181- 2025/09/16

	Brought Forward			R	
	Supplementary Preambles				
	Colours				
	Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards				
	PAINTWORK ETC TO NEW WORK				
	ON INTERNAL FLOATED PLASTER SURFACES				
	One coat alkali resistant primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint for interior use				
1	Walls	m2	37		
	ON EXTERNAL FLOATED PLASTER SURFACES				
	One coat alkali resistant primer and two coats extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint				
2	Walls	m2	504		
	ON EXTERNAL TEXTURED PLASTER SURFACES				
	One coat alkali resistant primer and two coats extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint				
3	Walls	m2	12		
4	Mouldings and bands picked out in colours differing from surrounding work	m2	40		
	Carried Forward			R	
	Building Works - 28 Units Bill No.17 - Paintwork				

-182- 2025/09/16

	Brought Forward			R
	ON INTERNAL GYPSUM PLASTER SURFACES			
	One coat alkali resistant primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint for interior use			
5	Skimmed plasterboard ceilings	m2	177	
6	Walls	m2	860	
	ON FIBRE-CEMENT BOARD SURFACES			
	One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use			
7	Ceilings and cornices, including priming metal cover strips and nailheads	m2	24	
	Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint			
8	Fascias and barge boards, including priming metal jointing strips	m2	22	
	ON METAL SURFACES			
	Remove all traces of protective coating from galvanised surfaces with galvanised iron cleaner and apply one coat self etching primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on galvanised steel			
9	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	84	
	ON WOOD SURFACES			
	Two coats oil wood primer			
10	Backs of frames, linings, etc not exceeding 300mm wide	m	389	
	Carried Forward Building Works - 28 Units Bill No.17 - Paintwork			R

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	Brought Forward			R	
	One coat primer and two coats premium quality polyurethane enamel paint				
11	Doors	m2	71		
12	Skirtings, rails, etc not exceeding 300mm girth	m	389		
	Carried Forward to Summary of Section No. 8			R	
	Building Works - 28 Units Bill No.17 - Paintwork				
		1			

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Item No		Quantity	Rate	Amount
	SECTION NO. 8 - BUILDING WORKS - 28 UNITS			
	BILL NO.18 - PROVISIONAL AMOUNTS			
	Provisional Sum for Four plate stove per block comprising 4 Units			
1	Provide the sum of R80,000.00 (Eighty Thousand Rands) for four plate stove.	PS		80,000.00
2	Contractors Markup		%	
	Provisional Sum for Wall mounted folded Washing line per block comprising 4 Units			
3	Provide the sum of R12,000.00 (Twelve Thousand Rands) for wall mounted washing lines.	PS		12,000.00
4	Contractors Markup		%	
	Provisional Sum for Bedroom & kitchen joinery per block comprising 4 Units			
5	Provide the sum of R340,000.00 (Three Hundred and forty Thousand Rands) for bedroom and kitchen joinery.	PS		340,000.00
6	Contractors Markup		%	
	Provisional Sum for decanting			
7	Provide the sum of R36,000.00 (Thirty Six Thousand Rand) for decanting, 4 units at a time.	PS		36,000.00
8	Contractors Markup		%	
	Provisional Sum for steel carports per block comprising 4 Units			
9	Provide the sum of R50,000.00 (Fifty Thousand Rand) for 4 No. steel carports	PS		50,000.00
10	Contractors Markup		%	
	Carried Forward Building Works - 28 Units		R	
	Bill No.18 - Provisional Amounts			

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	Brought Forward		R	
	Provisional Sum for Geotechnical Investigation per block comprising 4 Units			
11	Provide the sum of R6,000.00 (Six Thousand Rands) per block, i.e. 4 units per geotechnical investigation.	PS		6,000.00
12	Contractors Markup		%	
	Provisional Sum for balustrading per block comprising 4 Units			
13	Provide the sum of R60,000.00 (Sixty Thousand Rands) per block	PS		60,000.00
14	Contractors Markup		%	
	Provisional Sum for fencing and gates per block comprising 4 Units			
15	Provide the sum of R40,000.00 (Forty Thousand Rands) per block for fencing and gates	PS		40,000.00
16	Contractors Markup		%	
	Provisional Sum for plan scrutiny fees per block comprising 4 Units)			
17	Provide the sum of R48,000.00 (Forty Eight Thousand Rand) for plan scrutiny fees per block 4 No.	PS		48,000.00
18	Contractors Markup		%	
	Provisional Sum for N.H.B.R.C enrolment certificate per unit.			
19	Provide the sum of R134,000.00 (One Hundred and Thirty Four Thousand Rand) for N.H.B.R.C enrolment certificates per unit (R33,500.00 x 4).	PS		134,000.00
20	Contractors Markup		%	
	Carried Forward to Summary of Section No. 8 Building Works - 28 Units Bill No.18 - Provisional Amounts		R	
		ı I	II	I

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Building Works - 28 Units				
SECTION SUMMARY - Building Works - 28 Units		_		
		Page No		Amount
Bill No.1 - Earthworks		125		
Bill No.2 - Concrete, Formwork and Reinforcement		130		
Bill No.3 - Masonry		134		
Bill No.4 - Waterproofing		136		
Bill No.5 - Roof Coverings, etc		139		
Bill No.6 - Carpentry and Joinery		143		
Bill No.7 - Ceilings		148		
Bill No.8 - Floor Coverings, etc		152		
Bill No.9 - Ironmongery		155		
Bill No.10 - Metalwork		159		
Bill No.11 - Plastering		162		
Bill No.12 - Tiling		165		
Bill No.13 - Plumbing and Drainage		173		
Bill No.14 - Electrical Work		176		
Bill No.15 - Mechanical Work		178		
Bill No.16 - Glazing		180		
Bill No.17 - Paintwork		184		
Bill No.18 - Provisional Amounts		186		
SUBTOTAL			R	
Multiplied by an additional 6 Blocks	No	6		
		-		
Carried Forward			R	
Building Works - 28 Units				
	Bill No.1 - Earthworks Bill No.2 - Concrete, Formwork and Reinforcement Bill No.3 - Masonry Bill No.4 - Waterproofing Bill No.5 - Roof Coverings, etc Bill No.6 - Carpentry and Joinery Bill No.7 - Ceilings Bill No.8 - Floor Coverings, etc Bill No.9 - Ironmongery Bill No.10 - Metalwork Bill No.11 - Plastering Bill No.12 - Tilling Bill No.13 - Plumbing and Drainage Bill No.14 - Electrical Work Bill No.15 - Mechanical Work Bill No.16 - Glazing Bill No.17 - Paintwork Bill No.17 - Paintwork Bill No.18 - Provisional Amounts  SUBTOTAL Multiplied by an additional 6 Blocks	Bill No.1 - Earthworks  Bill No.2 - Concrete, Formwork and Reinforcement  Bill No.3 - Masonry  Bill No.4 - Waterproofing  Bill No.5 - Roof Coverings, etc  Bill No.7 - Ceilings  Bill No.9 - Ironmongery  Bill No.10 - Metalwork  Bill No.11 - Plastering  Bill No.12 - Tiling  Bill No.13 - Plumbing and Drainage  Bill No.15 - Mechanical Work  Bill No.16 - Glazing  Bill No.17 - Paintwork  Bill No.18 - Provisional Amounts  SUBTOTAL  Multiplied by an additional 6 Blocks  No	Bill No.1 - Earthworks  Bill No.2 - Concrete, Formwork and Reinforcement  Bill No.3 - Masonry  Bill No.4 - Waterproofing  Bill No.5 - Roof Coverings, etc  Bill No.7 - Ceilings  Bill No.9 - Ironmongery  Bill No.9 - Ironmongery  Bill No.10 - Metalwork  Bill No.12 - Tiling  Bill No.13 - Plumbing and Drainage  Bill No.14 - Electrical Work  Bill No.15 - Mechanical Work  Bill No.17 - Paintwork  Bill No.17 - Paintwork  Bill No.17 - Paintwork  Bill No.17 - Paintwork  Bill No.18 - Provisional Amounts  SUBTOTAL  Multiplied by an additional 6 Blocks  Carried Forward	Page No

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ECTION STIMMARY Duilding	n Works 28 Units			
ECTION SUMMARY - Building	g works - 28 Units	Page No		Amount
	Brought Forward	No	R	
SUBTOTAL			R	
,	Carried to Final Summany		R	
uilding Works - 28 Units	Carried to Final Summary		K	
-				

Bill No

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	Quantity	Rate	Amount
SECTION NO. 9 - EXTERNAL/CIVIL WORKS - 28 UNITS			
BILL NO.1 - EXTERNAL WORKS			
(CPAP WORK GROUP 104,112,136 & 154 UNLESS OTHERWISE STATED)			
<u>Preambles</u>			
The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
Nature of ground			
The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same			
<u>Subterranean water</u>			
The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same			
Carried Forward  External/Civil Works - 28 Units  Bill No.1 - External Works		R	

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Brought Forward	R	
Carting away of excavated material		
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		
Working Space		
Working space for any work requiring formwork, brick linings, etc, has been determined by the following conditions and shall be measured where:  1. The depth of the excavation does not exceed 1000mm and the distance from the finished face of the structure to the excavated face is less than 250mm for formwork or 600mm for brick linings and  2. The depth of the excavation exceeds 1000mm and the distance from the finished face of the structure to the excavated face is less than 600mm		
Filling and layer work materials		
References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14: 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter		
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series		
Testing of material and filling		
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series		
Carried Forward  External/Civil Works - 28 Units Bill No.1 - External Works	R	

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	Brought Forward			R	]
	Precast concrete block road surfacing				
	Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications				
	SITE CLEARANCE (CPAP WORK GROUP 104)				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	423		
	FILLING, ETC				
	G5 Earth filling from commercial sources supplied by the Contractor in accordance with SABS 1200 DM, compacted to 95% Mod AASHTO density				
2	150mm Base/Sub-Base layers	m3	20		
	G7 Earth filling from commercial sources supplied by the Contractor in accordance with SABS 1200 DM, compacted to 90% Mod AASHTO density (100% for sand).				
3	150mm Over site to make up levels	m3	70		
	C4 Cementitious stabilisation in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density				
4	150mm Over site to road and parking areas	m3	48		
	Compaction of surfaces				
5	Compaction of natural or excavated ground surface under parking areas etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	423		
	Prescribed density tests on filling:				
6	"Modified AASHTO Density" test	No	15		
	Carried Forward  External/Civil Works - 28 Units  Bill No. 1 External Works			R	
	Bill No.1 - External Works				

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	Brought Forward			R	
	PAVING ETC (CPAP WORK GROUP 118)				
	Allow the prime cost amount of R200/m2 (two hundred Rand) for the supply and delivery to site of paving of 450 x 450 x 50mm precast concrete block paving slabs laid on 30mm thick river sand bed				
7	Paving of slabs laid with 25mm wide joints jointed with mortar and flush pointed, laid to falls.	m2	105		
	Allow the prime cost amount of R6 000.00 (six thousand rand) per thousand for paving bricks in accordance with SANS 1058 delivered to site, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor				
8	80mm Thick 35MPa precast concrete interlocking block paving of 200 x 100mm paving blocks to stretcher, herringbone or basket weave pattern including forming soldier course perimeter margin	m2	313		
	PRECAST CONCRETE (CPAP WORK GROUP 112)				
	Precast concrete kerbs finished smooth on exposed surfaces, bedded on a 50mm thick x 500mm wide layer of unreinforced concrete with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint and jointed in 3.1 cement mortar, including excavation, backfilling, etc				
9	150 x 250mm High kerbs (BK2/SANS 927 fig 4)	m	40		
	Precast concrete kerbs finished smooth on exposed surfaces, bedded on a 50mm thick x 500mm wide layer of unreinforced concrete and jointed in 3.1 cement mortar, including excavation, backfilling, etc				
10	300 x 125mm high channels (C1/SANS 927 fig 14)	m	40		
	Carried Forward External/Civil Works - 28 Units			R	
	Bill No.1 - External Works				

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	Brought Forward			R	
3	Precast concrete kerbs finished smooth on exposed surfaces, bedded on a 50mm thick x 175mm wide layer of unreinforced concrete with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint and jointed in 3.1 cement mortar, including excavation, backfilling, etc				
11	75 x 150mm High kerbs (E1/SANS 927 fig 11)	m	90		
	ROOT BARRIERS				
12	Biobarrier' or similar 750mm deep vertical root barriers.	m	140		
	Carried Forward to Summary of Section No. 9 External/Civil Works - 28 Units			R	
	Bill No.1 - External Works				

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Item No		Quantity	Rate	Amount
	SECTION NO. 9 - EXTERNAL/CIVIL WORKS - 28 UNITS			
	BILL NO.2 - PLUMBING AND DRAINAGE			
	(CPAP WORK GROUP 146 and 148 UNLESS OTHERWISE STATED)			
	NOTE			
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Wire gratings			
	Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
	Carried Forward  External/Civil Works - 28 Units  Bill No.2 - Plumbing and Drainage		R	

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Brought Forward		R		
Stormwater channels				
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site				
Exposed concrete surfaces				
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster				
Sealing of edges				
Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone				
Reducing fittings				
Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained				
uPVC pipes and fittings				
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings				
uPVC pressure pipes and fittings				
Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings				
Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints				
Carried Forward		R		
External/Civil Works - 28 Units Bill No.2 - Plumbing and Drainage				
	1	I	I I	

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Brought Forward	R	
High density polyethylene (HDPe) pipes and fittings		
Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings		
"Polycop" polypropylene pipes		
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings		
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions		
Copper pipes		
Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016		
Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition		
Fixing of pipes		
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level		
Carried Forward External/Civil Works - 28 Units	R	
Bill No.2 - Plumbing and Drainage		

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Brought Forward	R	
Stainless steel basins, sinks, wash troughs, urinals, etc		
Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)		
Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)		
Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)		
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable		
Paper wrapping to pipes		
Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings		
Laying, backfilling, bedding, etc of pipes		
Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled		
Filling and bedding material		
Selected Fill Material: Selected material shall be material that has a P.I not greater than 6, is free from vegetation and from lumps and stones of diameter > 30mm. This material shall be used for the selected fill blanket		
Selected Granular Material: Selected granular material shall be of a granular, non- cohesive nature that is singularly graded between .6mm and 19mm, free draining, has a compact ability factor not exceeding .4 or such similar value as is laid down in project specification. For PVC and uPVC the factor is not to exceed the following; 1) 0.1 - Material suitable for all ground conditions 2) 0.3 - Material suitable provided extra care is taken during compaction operation		
Carried Forward  External/Civil Works - 28 Units Bill No.2 - Plumbing and Drainage	R	_

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	Brought Forward			R	
	Joints:				
	To ensure that each pipe will be fully supported throughout the length of its barrel on the bedding cradle, joint pockets/ holes shall be formed in the bedding cradle for pipe sockets				
	All work below ground shall be carried out in accordance with SANS 1200DB, SANS 1200LB, SANS 1200LD and SANS 1200LE				
	<u>General</u>				
	Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)				
	Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
	EARTHWORKS (STORMWATER, SUBSOIL DRAINAGE, STORMWATER DRAINAGE, SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC, SOIL DRAINAGE AND WATER SUPPLIES) (CPAP WORK GROUP 146)				
	Excavation in earth				
1	Excavation in earth not exceeding 1m deep for pipe or cable trenches or chambers including risk of collapse of excavations	m3	75		
2	Excavation in earth exceeding 1m but not exceeding 2m deep for pipe or cable trenches or chambers including risk of collapse of excavations	m3	50		
3	Extra over excavation in earth for pipe and cable trenches or chambers for excavation in soft rock	m3	13		
4	Extra over excavation in earth for pipe and cable trenches or chambers for excavation in hard rock	m3	6		
	Carried Forward			R	
	External/Civil Works - 28 Units Bill No.2 - Plumbing and Drainage				
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	Brought Forward			R	
5	Extra over excavation for pipe and cable trenches or chambers for carting away surplus material to a dumping site located by the contractor (This rate 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, and spoiled at a site located by the contractor not exceeding 10km in one direction from the site.	m3	47		
6	Extra over carting away of surplus material further than 10km in one direction from the site	m3	31		
7	Earth filling supplied by contractor to pipe or cable trenches or chambers	m3	25		
8	Earth filling supplied by contractor to pipe or cable trenches compacted or chambers to 95% Mod AASHTO density	m3	22		
9	Imported granular filling in bedding under and filling around pipes	m3	5		
10	Imported sand filling in bedding under and filling around pipes	m3	10		
	CONCRETE (STORMWATER, SUBSOIL DRAINAGE, STORMWATER DRAINAGE, SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC, SOIL DRAINAGE AND WATER SUPPLIES)				
11	15MPa/19mm Concrete in encasing to not exceeding 110mm diameter horizontal pipe of a minimum thickness of 150mm around pipe, including all necessary casing	m	25		
12	15MPa/19mm Concrete in encasing to not exceeding 110mm diameter horizontal bend or junction of a minimum thickness of 150mm around fitting, including all necessary casing	No	18		
13	15MPa/19mm Concrete in thrust block (approximately 0,06 cubic metres) at bends, etc., including casing	No	12		
	Carried Forward External/Civil Works - 28 Units Bill No.2 - Plumbing and Drainage			R	_

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EEVES FOR ELECTRICAL AND TELEPHONE ABLES ETC (CPAP WORK GROUP 171)  ass 6 PVC-U pipes  mm Pipes laid in trenches (trenches elsewhere)  stra over Class 6 PVC-U pipes for fittings  mm Long radius bend  raw wires  Smm Galvanised steel draw wires in pipes  DIL DRAINAGE (CPAP WORK GROUP 171)  ormal duty PVC-U sewer channels	m No m	40 16 40		
imm Pipes laid in trenches (trenches elsewhere)  itra over Class 6 PVC-U pipes for fittings  imm Long radius bend  itaw wires  imm Galvanised steel draw wires in pipes  DIL DRAINAGE (CPAP WORK GROUP 171)	No	16		
ctra over Class 6 PVC-U pipes for fittings  Imm Long radius bend  Taw wires  Somm Galvanised steel draw wires in pipes  OIL DRAINAGE (CPAP WORK GROUP 171)	No	16		
mm Long radius bend  Taw wires  Somm Galvanised steel draw wires in pipes  DIL DRAINAGE (CPAP WORK GROUP 171)				
Faw wires  Somm Galvanised steel draw wires in pipes  DIL DRAINAGE (CPAP WORK GROUP 171)				
Smm Galvanised steel draw wires in pipes  DIL DRAINAGE (CPAP WORK GROUP 171)	m	40		
DIL DRAINAGE (CPAP WORK GROUP 171)	m	40		
ormal duty PVC-U sewer channels				
0mm Channels in bottoms of inspection chambers	m	2		
tra over normal duty PVC-U sewer channels for tings				
0mm Bend	No	4		
0mm Double junction	No	2		
eavy duty (Class 34) PVC-U sewer and drain pipes				
Omm Pipes vertically or ramped to cleaning eyes etc o excavation)	m	20		
Omm Pipes laid in trenches (trenches elsewhere)	m	20		
ain pipes for fittings				
0mm Bend	No	12		
0mm Bend	No	8		
0mm Junction	No	4		
			R	
C	0mm Bend 0mm Junction	Omm Bend No Omm Junction No Carried Forward	Omm Bend No 8 Omm Junction No 4  Carried Forward ernal/Civil Works - 28 Units	Omm Bend No 8 Omm Junction No 4  Carried Forward R

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	Brought Forward			R	
25	160mm Junction	No	4		
26	160mm Reducing junction	No	4		
27	110mm Access bend	No	8		
28	110mm Access junction	No	4		
29	160mm Reducing junction	No	8		
30	110mm Rodding eye	No	8		
	uPVC gulleys				
31	110mm Gulley exceeding 500mm and not exceeding 750mm deep	No	2		
	Precast concrete circular inspection chambers including precast concrete cover slabs (cast iron covers and frames elsewhere) and channels in benching:				
32	1000mm Diameter inspection chamber not exceeding 1m deep internally	No	2		
33	Ditto, but exceeding 1,5m not exceeding 2m deep	No	1		
34	Ditto, but exceeding 2m not exceeding 2.5m deep	No	1		
	Gratings, covers, etc:				
35	Type 2A 635mm diameter cast iron manhole cover and frame	No	4		
36	Lifting-key for manhole cover (handed to Employer)	No	4		
	Testing:				
37	Testing soil drainage system		Item		
	WATER SUPPLIES (CPAP WORK GROUP 148)				
	Class 12 HDPe type V pipes				
38	40mm Pipes laid in trenches (trenches elsewhere).	m	25		
	Carried Forward External/Civil Works - 28 Units Bill No.2 - Plumbing and Drainage			R	

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	В	rought Forward		R	
39	50mm Pipes, ditto	m	10		
	Extra over Class 12 HDPe type V pipes "Compression Type" fittings	s for			
40	20mm Fittings	No	4		
41	32mm Reducer	No	1		
42	32mm Elbow	No	2		
43	32mm T	No	1		
44	40mm Reducer	No	4		
45	50mm Reducer	No	2		
46	40mm Elbow	No	4		
47	40mm Male/female 90 deg offtake	No	4		
48	40mm T	No	6		
49	50mm Elbow	No	2		
50	50mm Male/female 90 deg offtake	No	4		
51	50mm T	No	2		
	TAPS, VALVES, ETC				
	<u>Brass</u>				
52	40mm Stopcock	No	2		
53	50mm Stopcock	No	1		
	<u>Sundries</u>				
54	210 x 340mm Water meter box	No	4		
		Carried Forward		R	
	External/Civil Works - 28 Units Bill No.2 - Plumbing and Drainage				

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	Brought Forward			R		
	IRRIGATION WATER SUPPLY (CPAP WORK GROUP 148)					
	Class 3 LDPE type pipes					
55	12mm Pipes laid in trenches (trenches elsewhere).	m	25			
	Extra over Class 3 LDPE type pipes for "Compression Type" fittings					
56	12mm Couplings	No	12			
57	12mm Elbows	No	16			
58	12mm T-Piece	No	8			
59	End plug	No	8			
	TAPS, VALVES, ETC					
	Brass					
60	12mm Brass nickle plated ball valve	No	1			
	PVC					
61	12mm PVC Threaded ball valve	No	2			
	Sundries					
62	210 x 340mm Water meter box	No	1			
	Carried Forward to Summary of Section No. 9			R		
	External/Civil Works - 28 Units Bill No.2 - Plumbing and Drainage					
					I	l

**-203-** 2025/09/16

	External/Civil Works - 28 Units				
	SECTION SUMMARY - External/Civil Works - 28 Units		_		
Bill No			Page No		Amount
1	Bill No.1 - External Works		193		
2	Bill No.2 - Plumbing and Drainage		203		
	SUBTOTAL			R	
	Multiply by an additional 6 Units	No	6		
	SUBTOTAL			R	
	Carried to Final Summary			R	
	External/Civil Works - 28 Units				

**-204-** 2025/09/16

I NO. 10 - SITE ELECTRICAL ATION - 28 UNITS 1 - SITE ELECTRICAL			
1 SITE ELECTRICAL	1		
ATION			
ORK GROUP 160 and 162 UNLESS (ISE STATED)			
ruction Works: Specifications: General n (PW371-A) Edition 2.1" and "Construction edifications: Particular Specification (PW371-2.2" obtainable on the Public Works Website: publicworks.gov.za/ under "Forms & ; Consultants Guidelines"; Item 2.2.1 and m the Departmental Project Manager/Leader ead in support and extend the abbreviated ntities descriptions by inter alia referring to struction standards.			
o ensure that the abbreviated descriptions in conjunction with the applicable measuring presents the full description by extending the bills of quantities descriptions and/or by appropriate preambles or specifications.			
ard Preambles and the Notes in the various are to apply equally to this section.			
tary Preambles			
ons, drawings, etc.:			
are referred to the specification ing these bills of quantities for the electrical e full descriptions of the following items to be read and priced in conjunction with the cation			
Carried Forward cal Reticulation - 28 Units dite Electrical Reticulation		R	
rive p; nent oil in to all eoc	ruction Works: Specifications: General (PW371-A) Edition 2.1" and "Construction cifications: Particular Specification (PW3712" obtainable on the Public Works Website: publicworks.gov.za/ under "Forms & Consultants Guidelines"; Item 2.2.1 and in the Departmental Project Manager/Leader ead in support and extend the abbreviated stities descriptions by inter alia referring to truction standards.  To ensure that the abbreviated descriptions in conjunction with the applicable measuring resents the full description by extending the bills of quantities descriptions and/or by propriate preambles or specifications.  The Preambles and the Notes in the various re to apply equally to this section.  The Preambles of quantities for the electrical entitle descriptions of the following items of the preambles of the specification in the section of the specification with the cation.  Carried Forward at Reticulation - 28 Units	cuction Works: Specifications: General (PW371-A) Edition 2.1" and "Construction cifications: Particular Specification (PW371-2" obtainable on the Public Works Website: publicworks.gov.za/ under "Forms & Consultants Guidelines"; Item 2.2.1 and in the Departmental Project Manager/Leader sead in support and extend the abbreviated dittities descriptions by inter alia referring to truction standards.  In ensure that the abbreviated descriptions in conjunction with the applicable measuring resents the full description by extending the bills of quantities descriptions and/or by propriate preambles or specifications.  In Preambles and the Notes in the various re to apply equally to this section.  In the preambles of the electrical of the full descriptions of the following items of the read and priced in conjunction with the cation.  Carried Forward all Reticulation - 28 Units	ruction Works: Specifications: General n (PW371-A) Edition 2.1" and "Construction cifications: Particular Specification (PW371-2.2" obtainable on the Public Works Website: publicworks.gov.za/ under "Forms & Consultants Guidelines"; Item 2.2.1 and n the Departmental Project Manager/Leader and in support and extend the abbreviated titles descriptions by inter alia referring to truction standards.  In ensure that the abbreviated descriptions in conjunction with the applicable measuring resents the full description by extending the bills of quantities descriptions and/or by propriate preambles or specifications.  In Preambles and the Notes in the various re to apply equally to this section.  In the Preambles of the following items on the preceding of the following items of the read and priced in conjunction with the apticular in the section.  Carried Forward  R al Reticulation - 28 Units

**-205-** 2025/09/16

Brought Forward	R	
Distribution boards, etc:		
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings		
Switches, socket outlets, etc:		
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates		
Light fittings:		
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described		
<u>Liaison with Local Authority</u>		
Liaise with the Local Authority with regard to compliance with the National Building Regulations, Local By-laws and any other Statutory Regulations.		
Concurrent with Building Work:		
The electrical work in this service shall be carried out concurrently with the building work. The electrical contractor shall liaise closely with the building contractor		
Handing over existing materials:		
Where certain materials or articles are described as to be handed over by the contractor to the Department's Representative or Representative/Agent such materials or articles shall be properly stored by the contractor until handing over thereof. The contractor must obtain an official receipt listing the materials or articles and dates of handover. If the contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof which amount will be deducted from any monies due to the contractor.		
Carried Forward Site Electrical Reticulation - 28 Units Bill No.1 - Site Electrical Reticulation	R	_

**-206-** 2025/09/16

	Brought Forward			R
	Low Voltage Cables Armoured			
1	16 mm² Cu x 2 core with 1mm² Pilot wires	m	1,400	
2	16 mm² Cu x 2 core	m	550	
3	70mm² Al x 4 core	m	100	
4	120mm² Al x 4 core	m	360	
5	120mm² Al x 4 core	m	180	
6	Terminations	No	1	
	<u>Distribution Kiosk</u>			
	Supply and install 12 Way Double door 3CR12 Steel Distribution Kiosk including all internal wiring, bus bars, circuit breakers, all labelling and accessories, with vermin proofing as specified. Kiosks to be pre-wired for split prepayment meter installation, meter installation by Others			
7	12 Way double door 3CR12 Steel Kiosk with 10 x 63A QF-1(26)-C1 6kA Curve 1 Single Pole MCB's as per CoCT Specification	No	1	
8	12 Way double door 3CR12 Steel Kiosk with 9 x 63A QF-1(26)-C1 6kA Curve 1 Single Pole MCB's as per CoCT Specification	No	2	
9	Single-phase Prepaid billing meter complete 80A	No	28	
10	User/keypad 80A	No	28	
11	Labelling sum	No	1	
	Streetlighting			
	Comprises floodlighting, sundry builder's work, etc.			
12	BEKAStar - 47W LED	No	1	
13	BEKARay - 47W LED	No	1	
	Carried Forward Site Electrical Reticulation - 28 Units Bill No.1 - Site Electrical Reticulation			R

**-207-** 2025/09/16

	Brought Forward			R	
14	LUCCA Post Top - 45W-LED	No	11		
15	6,3m Galvanised Steel pole	No	11		
16	16mm² Al 2-Core	No	550		
17	Terminations	No	1		
18	Streetlighting control	No	1		
19	Labelling sum	No	1		
	Earthing & Bonding				
20	Steel reinforced 1,8m copper earth spikes and brass coupling wiSteel reinforced 1,8m copper earth spikes and brass coupling with driving capth driving cap	No	12		
21	70mm² BCE wiring	m	150		
22	Termination of 70mm² on copper spike and earth bar	m	24		
23	Earthing and Bonding of a unit or residential installation including all equipment to bond water pipes and the like in compliance with SANS 10142, the General Specification, the Code of Practice and the Local Supply Authorities as per the Statutory requirements IRO Wiring of Premises. Rate measured as per unit	No	28		
24	2,5mm² BCE wiring	m	500		
25	4mm² BCE wiring	m	100		
	Carried to Final Summary Site Electrical Reticulation - 28 Units Bill No.1 - Site Electrical Reticulation			R	

**-208-** 2025/09/16

	Site Electrical Reticulation - 28 Units				
Bill	SECTION SUMMARY - Site Electrical Reticulation - 28 Units	Page		Amount	
No		Page No		Amount	
1	Bill No.1 - Site Electrical Reticulation	208			
	SUBTOTAL		R		
					_
	Carried to Final Summary Site Electrical Reticulation - 28 Units		R		_

**-209-** 2025/09/16

Item No		Quantity	Rate	Amount
	SECTION NO. 11 - LANDSCAPING AND PAVING - 28 UNITS			
	BILL NO.1 - LANDSCAPING AND PAVING			
	(CPAP WORK GROUP 104, 110,111, 112,114, 118 and 154 UNLESS OTHERWISE STATED)			
	<u>Preambles</u>			
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.			
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.			
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
	Nature of ground			
	The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same			
	Subterranean water			
	The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same			
	Carried Forward  Landscaping and Paving - 28 Units  Bill No.1 - Landscaping and Paving		R	
	Landscaping and Paving - 28 Units		R	

-210- 2025/09/16

Brought Forward	R	
Carting away of excavated material		
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		
Working Space		
Working space for any work requiring formwork, brick linings, etc, has been determined by the following conditions and shall be measured where:  1. The depth of the excavation does not exceed 1000mm and the distance from the finished face of the structure to the excavated face is less than 250mm for formwork or 600mm for brick linings and  2. The depth of the excavation exceeds 1000mm and the distance from the finished face of the structure to the excavated face is less than 600mm		
Filling and layer work materials		
References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14: 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter		
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series		
Testing of material and filling		
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series		
Carried Forward  Landscaping and Paving - 28 Units  Bill No.1 - Landscaping and Paving	R	

-211- 2025/09/16

	Brought Forward			R	
	Precast concrete block road surfacing				
	Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications				
	SITE CLEARANCE (CPAP WORK GROUP 104)				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	1,820		
	FILLING, ETC				
	G5 Earth filling from commercial sources supplied by the Contractor in accordance with SABS 1200 DM, compacted to 95% Mod AASHTO density				
2	Sub-Base layers	m3	270		
	G7 Earth filling from commercial sources supplied by the Contractor in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density				
3	Over site to make up levels	m3	270		
	Compaction of surfaces				
4	Compaction of natural or excavated ground surface under parking areas etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	1,820		
	Prescribed density tests on filling:				
5	"Modified AASHTO Density" test	No	18		
	Carried Forward Landscaping and Paving - 28 Units			R	
	Bill No.1 - Landscaping and Paving				

-212- 2025/09/16

	Brought Forward			R	
	PAVING ETC (CPAP WORK GROUP 118)				
	Allow the prime cost amount of R10,000 per thousand paving bricks (ten thousand rand) for the supply and delivery to site of paving of 50mm clay paving bricks laid on 50mm thick river sand bed				
6	Clay paving laid with open joints with sand and cement mixture swept into joints, hosed down and pointed with slightly keyed joints including preparation of ground or filling in stretcher bond	m2	1,800		
	PRECAST CONCRETE (CPAP WORK GROUP 112)				
	Precast concrete kerbs finished smooth on exposed surfaces, bedded on a 50mm thick x 175mm wide layer of unreinforced concrete with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint and jointed in 3.1 cement mortar, including excavation, backfilling, etc				
7	75 x 150mm High kerbs (E1/SANS 927 fig 11)	m	2,000		
					-
	Carried Forward to Summary of Section No. 11 Landscaping and Paving - 28 Units Bill No.1 - Landscaping and Paving			R	=

-213- 2025/09/16

Item No		Quantity	Rate	Amount	
	SECTION NO. 11 - LANDSCAPING AND PAVING - 28 UNITS				
	BILL NO.2 - PLUMBING AND DRAINAGE				
	(CPAP WORK GROUP 146 ,148 & 171 UNLESS OTHERWISE STATED)				
	NOTE				
	The use of trade names is an indication of a standard acceptable to the Project Manager. Any other equal alternative product / brand may be used with prior written approval of the Project Manager.				
	<u>Preambles</u>				
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.				
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.  The Standard Preambles and the Notes in the various				
	trade bills are to apply equally to this section.				
	Wire gratings  Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings				
	Carried Forward  Landscaping and Paving - 28 Units  Bill No.2 - Plumbing and Drainage		R		

-214- 2025/09/16

Brought Forward	R	
Stormwater channels		
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site		
Exposed concrete surfaces		
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster		
Sealing of edges		
Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone		
Reducing fittings		
Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained		
uPVC pipes and fittings		
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings		
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings		
uPVC pressure pipes and fittings		
Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings		
Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints		
Carried Forward	R	
Landscaping and Paving - 28 Units Bill No.2 - Plumbing and Drainage		

**-215-** 2025/09/16

Brought Forward	R	
High density polyethylene (HDPe) pipes and fittings		
Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings		
"Polycop" polypropylene pipes		
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings		
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions		
Copper pipes		
Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and antisyphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016		
Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition		
Fixing of pipes		
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level		
Carried Forward	R	
Landscaping and Paving - 28 Units Bill No.2 - Plumbing and Drainage		

-216- 2025/09/16

Brought Forward		R		
Stainless steel basins, sinks, wash troughs, urinals, etc				
Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)				
Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)				
Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)				
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable				
Paper wrapping to pipes				
Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings				
Laying, backfilling, bedding, etc of pipes				
Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
Filling and bedding material				
Selected Fill Material: Selected material shall be material that has a P.I not greater than 6, is free from vegetation and from lumps and stones of diameter > 30mm. This material shall be used for the selected fill blanket				
Selected Granular Material: Selected granular material shall be of a granular, non- cohesive nature that is singularly graded between .6mm and 19mm, free draining, has a compact ability factor not exceeding .4 or such similar value as is laid down in project specification. For PVC and uPVC the factor is not to exceed the following; 1) 0.1 - Material suitable for all ground conditions 2) 0.3 - Material suitable provided extra care is taken during compaction operation				
Carried Forward  Landscaping and Paving - 28 Units  Bill No.2 - Plumbing and Drainage		R		
	Stainless steel basins, sinks, wash troughs, urinals, etc Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable  Paper wrapping to pipes Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings  Laying, backfilling, bedding, etc of pipes Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled  Filling and bedding material Selected Fill Material: Selected material shall be material that has a P.I not greater than 6, is free from vegetation and from lumps and stones of diameter > 30mm. This material shall be used for the selected fill blanket  Selected Granular Material: Selected Granular Material: Selected granular material shall be of a granular, noncohesive nature that is singularly graded between .6mm and 19mm, free draining, has a compact ability factor not exceeding .4 or such similar value as is laid down in project specification. For PVC and uPVC the factor is not to exceed the following; 1) 0.1 - Material suitable for all ground conditions 2) 0.3 - Material suitable provided extra care is taken during compaction operation  Carried Forward  Landscaping and Paving - 28 Units	Stainless steel basins, sinks, wash troughs, urinals, etc  Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)  Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)  Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)  Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable  Paper wrapping to pipes  Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings  Laying, backfilling, bedding, etc of pipes  Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled  Filling and bedding material  Selected Fill Material: Selected material shall be material that has a P.I not greater than 6, is free from vegetation and from lumps and stones of diameter > 30mm. This material shall be used for the selected fill blanket  Selected Granular Material: Selected granular material shall be of a granular, noncohesive nature that is singularly graded between .6mm and 19mm, free draining, has a compact ability factor not exceeding .4 or such similar value as is laid down in project specification. For PVC and uPVC the factor is not to exceed the following;  1) 0.1 - Material suitable for all ground conditions 2) 0.3 - Material suitable provided extra care is taken during compaction operation  Carried Forward  Landscaping and Paving - 28 Units	Stainless steel basins, sinks, wash troughs, urinals, etc  Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)  Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)  Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)  Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable  Paper wrapping to pipes  Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings  Laying, backfilling, bedding, etc of pipes  Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled  Filling and bedding material  Selected Fill Material:  Selected Fill Material:  Selected franular Material:  Selected granular material shall be of a granular, non-cohesive nature that is singularly graded between 6mm and 19mm, free draining, has a compact ability factor not exceeding. 4 or such similar value as is laid down in project specification. For PVC and uPVC the factor is not to exceed the following;  1) 0.1 - Material suitable for all ground conditions  2) 0.3 - Material suitable for all ground conditions  2) 0.1 - Material suitable for all ground conditions  2) 0.3 - Material suitable for all ground conditions  2) 0.3 - Material suitable for all ground conditions  2) 0.3 - Material suitable for all ground conditions  2) 0.3 - Material suitable for all ground conditions  2) 0.3 - Material suitable for all ground conditions  2) 0.3 - Material suitable for all ground conditions	Stainless steel basins, sinks, wash troughs, urinals, etc  Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)  Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)  Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)  Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable  Paper wrapping to pipes  Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings  Laying, backfilling, bedding, etc of pipes  Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled  Filling and bedding material  Selected Fill Material: Selected Fill Material: Selected fill Material: Selected granular material shall be material shall be used for the selected fill blanket  Selected Granular Material: Selected granular material shall be of a granular, non-cohesive nature that is singularly graded between .6mm and 19mm, free draining, has a compact ability factor not exceeding 4 or such similar value as is laid down in project specification. For PVC and uPVC the factor is not to exceed for 610/wing: 1) 0.1 - Material suitable for all ground conditions 2) 0.3 - Material suitable provided extra care is taken during compaction operation

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	Brought Forward			R	
	Joints:				
	To ensure that each pipe will be fully supported throughout the length of its barrel on the bedding cradle, joint pockets/ holes shall be formed in the bedding cradle for pipe sockets				
	All work below ground shall be carried out in accordance with SANS 1200DB, SANS 1200LB, SANS 1200LD and SANS 1200LE				
	<u>General</u>				
	Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)				
	Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
	EARTHWORKS (STORMWATER, SUBSOIL DRAINAGE, STORMWATER DRAINAGE, SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC, SOIL DRAINAGE AND WATER SUPPLIES) (CPAP WORK GROUP 146)				
	Excavation in earth				
1	Excavation in earth not exceeding 1m deep for pipe or cable trenches or chambers including risk of collapse of excavations	m3	360		
2	Excavation in earth exceeding 1m but not exceeding 2m deep for pipe or cable trenches or chambers including risk of collapse of excavations	m3	720		
3	Extra over excavation in earth for pipe and cable trenches or chambers for excavation in soft rock	m3	108		
4	Extra over excavation in earth for pipe and cable trenches or chambers for excavation in hard rock	m3	54		
	Carried Forward			R	
	Landscaping and Paving - 28 Units Bill No.2 - Plumbing and Drainage				

-218-2025/09/16

	Brought Forward			R		
5	Extra over excavation for pipe and cable trenches or chambers for carting away surplus material to a dumping site located by the contractor (This rate 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, and spoiled at a site located by the contractor not exceeding 10km in one direction from the site. Rate should not allow for the spoiling costs paid at the dump site and this will be measured as an separate item in each work package)	m3	471			
6	Extra over carting away of surplus material further than 10km in one direction from the site	m3	314			
7	Backfilling to pipe or cable trenches or chambers	m3	216			
8	Backfilling to pipe or cable trenches compacted or chambers to 95% Mod AASHTO density	m3	324			
9	Selected granular filling in bedding under and filling around pipes	m3	86			
10	Sand filling in bedding under and filling around pipes	m3	159			
	CONCRETE (STORMWATER, SUBSOIL DRAINAGE, STORMWATER DRAINAGE, SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC, SOIL DRAINAGE AND WATER SUPPLIES) (CPAP WORK GROUP 146)					
11	15MPa/19mm Concrete in encasing to not exceeding 110mm diameter horizontal pipe of a minimum thickness of 150mm around pipe, including all necessary casing	m	400			
12	15MPa/19mm Concrete in encasing to not exceeding 110mm diameter horizontal bend or junction of a minimum thickness of 150mm around fitting, including all necessary casing	No	275			
13	15MPa/19mm Concrete in thrust block (approximately 0,06 cubic metres) at bends, etc., including casing	No	165			
	Carried Forward Landscaping and Paving - 28 Units Bill No.2 - Plumbing and Drainage			R		

-219- 2025/09/16

	Brought Forward			R	
	SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC (CPAP WORK GROUP 171)				
	Class 6 PVC-U pipes				
14	50mm Pipes laid in trenches (trenches elsewhere)	m	1,000		
15	110mm, ditto	m	1,000		
	Extra over Class 6 PVC-U pipes for fittings				
16	50mm Long radius bend	No	22		
17	100mm Ditto	No	28		
	<u>Draw wires</u>				
18	1,6mm Galvanised steel draw wires in pipes	m	2,000		
	Precast concrete circular inspection chambers including precast concrete cover slabs (cast iron covers and frames elsewhere) and channels in benching:				
19	1000mm Diameter inspection chamber not exceeding 1m deep internally	No	4		
	Gratings, covers, etc:				
20	Type 2A 635mm diameter cast iron manhole cover and frame	No	4		
21	Lifting-key for manhole cover (handed to Employer)	No	4		
	Provisional Sum for Borehole				
22	Provide the sum of R350,000 (Three Hundred and Fifty Thousand Rands) for 1 No. borehole servicing all 7 blocks, i.e. 28 units.		PS		350,000.00
23	Contractors Markup			%	
	Carried Forward to Summary of Section No. 11 Landscaping and Paving - 28 Units Bill No.2 - Plumbing and Drainage			R	

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	Landscaping and Paving - 28 Units			
Bill No	SECTION SUMMARY - Landscaping and Paving - 28 Units	Page No		Amount
1	Bill No.1 - Landscaping and Paving	213		
2	Bill No.2 - Plumbing and Drainage	220		
	SUBTOTAL		R	
	Carried to Final Summary		R	
	Landscaping and Paving - 28 Units			
			İ	

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Item No			Quantity	Rate	Amount	
	SECTION NO. 12 - 18TH AVENUE SEWER REPAIRS					
	BILL NO.1 - 18TH AVENUE SEWER REPAIRS					
	(CPAP WORK GROUP 104,112,136 & 154 UNLESS OTHERWISE STATED)					
	<u>Preambles</u>					
	The "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" and "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" obtainable on the Public Works Website: http://www.publicworks.gov.za/ under "Forms & Documents; Consultants Guidelines"; Item 2.2.1 and 2.2.2 or from the Departmental Project Manager/Leader should be read in support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards.					
	Users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.					
	The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.					
	SITE CLEARANCE (CPAP WORK GROUP 104)					
	Site clearance					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	900			
	Taking out and removing, grubbing up roots, filling in holes and compacting to 95% Mod AASHTO density					
2	Tree stump not exceeding 1m high, exceeding 200mm and not exceeding 500mm girth	No	10			
	Carried Forward  18th Avenue Sewer Repairs  Bill No.1 - 18th Avenue Sewer Repairs			R		

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	Brought Forwar	rd		R	
3	Tree stump not exceeding 1m high, exceeding 500mm and not exceeding 1000mm girth	No	30		
4	Tree stump exceeding 1m high, exceeding 2000mm and not exceeding 2500mm girth	l No	30		
	Excavation in earth				
5	Trenches	m3	1,600		
6	Holes	m3	66		
	Extra over all excavations for carting away				
7	Surplus material from bulk excavations and/or stock piles on site to a dumping site located by the contractor (This rate 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, and spoiled at a site located by the contractor not exceeding 10km in one direction from the site.	m3	112		
8	Extra over carting away of surplus material further than 10km in one direction from the site	m3	80		
	Risk of collapse of excavations				
9	Sides of trench and hole excavations exceeding 1,5m deep	m2	500		
	Keeping excavations free of water				
10	Keeping excavations free of all water other than subterranean water			SUM	
	FILLING ETC				
	Selected earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density				
11	Backfilling to trenches, holes, etc	m3	1,554		
12	Selected granular material	m3	140		
	Carried Forwar  18th Avenue Sewer Repairs  Bill No.1 - 18th Avenue Sewer Repairs	rd		R	

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	Brought Forward			R	
	<u>TESTS</u>				
	Prescribed tests to determine degree of compaction				
13	Dynamic Cone Penetration Test	No	12		
	ROOT CONTROL				
	Biobarrier Root Control				
14	Root Control Fabric 750mm deep to be layed along trench area.Prune tree and shrub roots, ensuring it is between the area to be protected and all roots, secure with the landscape pins, backfill the trench and tamp it to ensure there are no gaps in the soil.	m	400		
	<u>PIPEWORK</u>				
	Heavy duty (Class 34) socketed uPVC sewer pipes				
15	315mm Pipes laid in trenches	m	200		
16	Cut into existing stoneware sewer pipe exceeding 110 and not exceeding 160mm diameter to remove damaged portion and reinstate, including testing	No	1		
17	Cutting into side of existing inspection chamber for and connecting pipe, including inserting pipe channel junction and making good concrete benching	No	2		
	INSPECTION CHAMBERS				
18	20MPa/19mm unreinforced concrete in bottoms	m3	1		
19	20MPa/19mm reinforced concrete in cover slab	m3	2		
20	Average 50mm thick unreinforced concrete in benching bottom of chamber, dished down to channels and finished smooth with cement plaster	m2	5		
21	Precast concrete circular manhole rings 1000mm diameter of varying heights to suit depth of each manhole and placed in position	m	21		
22	One brick walls, in NFX bricks (14 MPa nominal compressive strength) in class II mortar	m2	5		
	Carried Forward  18th Avenue Sewer Repairs  Bill No.1 - 18th Avenue Sewer Repairs			R	

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	Brought Forward			R		
23	Plaster on brick walls	m2	5			
	"4EVR or similar" Polypropylene steps					
24	for Manholes	No	72			
	<u>Pumps</u>					
25	Provision of sludge pump and bypass pipes with maximum length of 75m with 20 litre/second capacity to bypass existing sewers during repairs	No	2			
26	Operate bypass pump during repairs	DAY	88			
	Polymer Concrete Manhole covers and frames					
27	450 x 450mm HD	No	5			
	Scheduled Reinforcement Items					
28	High Tensile Steel bars in the following Y10 bars	t	0.20			
29	Y20 bars	t	0.20			
	<u>Joints</u>					
30	Polyurethane Joint Sealer 10mm thick openings between precast slabs to be filled with an approved polyurethane sealer	m	20			
31	Seal around pipe with bituminous roofing felt type 4D and bitumen filler	m	6			
	Carried to Final Summary			R		<u> </u>
	18th Avenue Sewer Repairs Bill No.1 - 18th Avenue Sewer Repairs					

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	18th Avenue Sewer Repairs				
Bill No	SECTION SUMMARY - 18th A	Avenue Sewer Repairs	Page No		Amount
1	Bill No.1 - 18th Avenue Sewe	r Repairs	225		
	SUBTOTAL			R	
		Carried to Final Summary		R	
	18th Avenue Sewer Repairs	-			

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Item No			Quantity	Rate	Amount
	SECTION NO. 13				
	BILL NO.1				
	PROFESSIONAL SERVICES: ARCHITECTURAL				
	Tenderers are advised to consult the BOARD  NOTICE 471 OF 2023 of the South African Council for the Architectural Profession, Guidelines for Professional Fees in terms of Section 34 (2) of the Architectural Profession Act, 2000 Act 44 of 2000 ("the Act")				
1	Stage 2 - Review of existing information		Item		
2	Stage 3 - Detail design development		Item		
3	Stage 4.1 - Documentation and procurement		Item		
4	Stage 4.2 - Documentation and procurement		Item		
5	Stage 5 - Construction		Item		
6	Stage 6 - Close-out		Item		
7	SACAP Registered Professional Principal (rate per hour only)	Hrs			Rate Only
8	SACAP Registered Professional (rate per hour only)	Hrs			Rate Only
9	SACAP Registered Technician (rate per hour only)	Hrs			Rate Only
	Carried Forward to Summary of Section No. 13 Professional Fees Bill No.1 - Architect			R	

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Item No			Quantity	Rate	Amount
	SECTION NO. 13				
	BILL NO.2				
	PROFESSIONAL SERVICES: QUANTITY SURVEYING				
	Tenderers are advised to consult the BOARD NOTICE 741 OF 2025 of the South African Council for the Quantity Surveying Profession, Amendment of Guidelines Tariff of Professional Fees in respect of services rendered by persons registered in terms of the Quantity Surveing Act 2000 (Act No.49 of 2000)				
1	Stage 2 - Review of existing information		Item		
2	Stage 3 - Detail design development		Item		
3	Stage 4 - Documentation and procurement		Item		
4	Stage 5 - Construction		Item		
5	Stage 6 - Close-out		Item		
6	SACQSP Registered Professional Principal (rate per hour only)	Hrs			Rate Only
7	SACQSP Registered Professional (rate per hour only)	Hrs			Rate Only
8	SACQSP Candidate (rate per hour only)	Hrs			Rate Only
	Carried Forward to Summary of Section No. 13 Professional Fees Bill No.2 - Quantity Surveyor			R	

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Item No			Quantity	Rate	Amount
	SECTION NO. 13				
	BILL NO.3				
	PROFESSIONAL SERVICES: CIVIL ENGINEER				
	Tenderers are advised to consult the BOARD  NOTICE 22 OF 2021 of the Engineering Council of South Africa. The Engineering Council of South  Africa has, under Section 34(2) of the Engineering  Profession Act. 2000 (Act No. 46 of 2000)  determined the guideline scope of services and tariff of fees in the Schedule.				
1	Stage 2 - Review of existing information		Item		
2	Stage 3 - Detail design development		Item		
3	Stage 4 - Documentation and procurement		Item		
4	Stage 5 - Construction		Item		
5	Stage 6 - Close-out		Item		
6	ECSA Registered Professional Principal (rate per hour only)	Hrs			Rate Only
7	ECSA Registered Professional (rate per hour only)	Hrs			Rate Only
8	ECSA Registered Technician (rate per hour only)	Hrs			Rate Only
	Carried Forward to Summary of Section No. 13 Professional Fees Bill No.3 - Civil Engineer			R	

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Item No			Quantity	Rate	Amount
	SECTION NO. 13				
	BILL NO.4				
	PROFESSIONAL SERVICES: STRUCTURAL ENGINEER				
	Tenderers are advised to consult the BOARD NOTICE 22 OF 2021 of the Engineering Council of South Africa. The Engineering Council of South Africa has, under Section 34(2) of the Engineering Profession Act. 2000 (Act No. 46 of 2000) determined the guideline scope of services and tariff of fees in the Schedule.				
1	Stage 2 - Review of existing information		Item		
2	Stage 3 - Detail design development		Item		
3	Stage 4 - Documentation and procurement		Item		
4	Stage 5 - Construction		Item		
5	Stage 6 - Close-out		Item		
6	ECSA Registered Professional Principal (rate per hour only)	Hrs			Rate Only
7	ECSA Registered Professional (rate per hour only)	Hrs			Rate Only
8	ECSA Registered Technician (rate per hour only)	Hrs			Rate Only
	Carried Forward to Summary of Section No. 13 Professional Fees Bill No.4 - Structural Engineer			R	

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Item No			Quantity	Rate	Amount
	SECTION NO. 13				
	BILL NO.5				
	PROFESSIONAL SERVICES: ELECTRICAL ENGINEER				
	Tenderers are advised to consult the BOARD NOTICE 22 OF 2021 of the Engineering Council of South Africa. The Engineering Council of South Africa has, under Section 34(2) of the Engineering Profession Act. 2000 (Act No. 46 of 2000) determined the guideline scope of services and tariff of fees in the Schedule.				
1	Stage 2 - Review of existing information		Item		
2	Stage 3 - Detail design development		Item		
3	Stage 4 - Documentation and procurement		Item		
4	Stage 5 - Construction		Item		
5	Stage 6 - Close-out		Item		
6	ECSA Registered Professional Principal (rate per hour only)	Hrs			Rate Only
7	ECSA Registered Professional (rate per hour only)	Hrs			Rate Only
8	ECSA Registered Technician (rate per hour only)	Hrs			Rate Only
	Carried Forward to Summary of Section No. 13 Professional Fees Bill No.5 - Electrical Engineer			R	

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Item No			Quantity	Rate	Amount
	SECTION NO. 13				
	BILL NO.6				
	PROFESSIONAL SERVICES: MECHANICAL ENGINEER				
	Tenderers are advised to consult the BOARD NOTICE 22 OF 2021 of the Engineering Council of South Africa. The Engineering Council of South Africa has, under Section 34(2) of the Engineering Profession Act. 2000 (Act No. 46 of 2000) determined the guideline scope of services and tariff of fees in the Schedule.				
1	Stage 2 - Review of existing information		Item		
2	Stage 3 - Detail design development		Item		
3	Stage 4 - Documentation and procurement		Item		
4	Stage 5 - Construction		Item		
5	Stage 6 - Close-out		Item		
6	ECSA Registered Professional Principal (rate per hour only)	Hrs			Rate Only
7	ECSA Registered Professional (rate per hour only)	Hrs			Rate Only
8	ECSA Registered Technician (rate per hour only)	Hrs			Rate Only
	Carried Forward to Summary of Section No. 13 Professional Fees Bill No.6 - Mechanical Engineer			R	

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Item No			Quantity	Rate	Amount
	SECTION NO. 13				
	BILL NO.7				
	PROFESSIONAL SERVICES: LANDSCAPE ARCHITECT				
	Tenderers are advised to consult the notice from South African Council for the Landscape Architectural Profession, Section 12 (1) of the Landscape Architectural Profession Act, (Act No. 45 of 2000) ("the Act")				
	For the purposes of determining the professional fee applicable to the landscape scope of works, the Value of Works shall be deemed to be R5,000,000.00 (Five Million Rands). This value shall serve as the basis for all fee calculations, assessments, and any related cost-based evaluations pertaining to the landscape professionals appointment				
1	Stage 2 - Review of existing information		Item		
2	Stage 3 - Detail design development		Item		
3	Stage 4.1 - Documentation and procurement		Item		
4	Stage 4.2 - Documentation and procurement		Item		
5	Stage 5 - Construction		Item		
6	Stage 6 - Close-out		Item		
7	SACLAP Registered Professional Principal (rate per hour only)	Hrs			Rate Only
8	SACLAP Registered Professional (rate per hour only)	Hrs			Rate Only
9	SACLAP Registered Technician (rate per hour only)	Hrs			Rate Only
	Carried Forward to Summary of Section No. 13 Professional Fees Bill No.7 - Landscape Architect			R	

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	Professional Fees			
Bill No	SECTION SUMMARY - Professional Fees	Page No		Amount
1	Bill No.1 - Architect	227		
2	Bill No.2 - Quantity Surveyor	228		
3	Bill No.3 - Civil Engineer	229		
4	Bill No.4 - Structural Engineer	230		
5	Bill No.5 - Electrical Engineer	231		
6	Bill No.6 - Mechanical Engineer	232		
7	Bill No.7 - Landscape Architect	233		
	SUBTOTAL		R	
	Carried to Final Summary Professional Fees		R	

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	FINAL SUMMARY			
Section No		Page No		Amount
1	Preliminaries and General	15		
2	Demolitions - 85 Units	18		
3	Building Works - 85 Units	84		
4	External/Civil Works - 85 Units	100		
5	Site Electrical Reticulation - 85 Units	105		
6	Landscaping and Paving - 85 Units	117		
7	Demolitions - 28 Units	120		
8	Building Works - 28 Units	188		
9	External/Civil Works - 28 Units	204		
10	Site Electrical Reticulation - 28 Units	209		
11	Landscaping and Paving - 28 Units	221		
12	18th Avenue Sewer Repairs	226		
13	Professional Fees	234		
	SUB-TOTAL		R	
	TAX (15%)		R	
	Carried to Form of Tender		R	

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