



INDEPENDENT DEVELOPMENT TRUST

Contract No.: DOEEC/12/2023/2024

A Bid for Category 5GB or higher CIDB Registered Contractors

MAMPELAZWE JUNIOR SECONDARY SCHOOL

LOCATED TAWENI, FLAGSTAFF, OR TAMBO DISTRICT, EASTERN CAPE PROVINCE

Name of Bidder : _____

NAME OF DULY AUTHORIZED PERSON: _____

ADDRESS : _____

TEL. NUMBER : _____

CELL NUMBER : _____

FAX NUMBER : _____

E-MAIL : _____

CRS NUMBER : _____

CSD NUMBER : _____

ISSUED BY:

Independent Development Trust
Palm Square Business Park
Bonza Bay Road
Silverwood House, Beacon Bay, 5205
Ms. M Gxashe
Tel: (043) 711-6000
Email: MphoG@idt.org.za

PREPARED BY:

BARTSCH ARCHITECTS
50 Balfour Road,
Vincent
East London
Mr. Mario Olivier
Tel: 043 727 0765
Email: mario@bartschec.co.za



INDEPENDENT DEVELOPMENT TRUST

AT

MAMPELAZWE JUNIOR SECONDARY SCHOOL

LOCATED TAWENI, FLAGSTAFF, OR TAMBO DISTRICT, EASTERN CAPE PROVINCE

BID NO: DOEEC/12/2023/2024

CLOSING DATE: 28 August 2023

ISSUED

Independent Development Trust

Physical Address,
Palm Square Business Park
Bonza Bay Road
Beacon Bay, 5205
Contact: Ms. N. Dyasi
Telephone: 043 711 6000

PRINCIPAL AGENT

BARTSCH ARCHITECTS
50 Balfour Road,
Vincent
East London
5217
Contact:
Name: Mr. M. Olivier
Tel: 043 727 0765

PREPARED BY

MMPA Quantity Surveyors & Project Managers
14 Bonza Bay Road, Beacon Bay, East London
5205
NAME: Vusi Duru
TEL: 043 721 0077



INDEPENDENT DEVELOPMENT TRUST

Provision of a single Grade R classroom and ablution blocks with playground amenities at Mampelazwe Junior Primary School, Flagstaff (Taweni), O.R Tambo District.

Contents

Number	Heading
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The Bid

Part T1: Bidding procedures

T1.1	Bid Notice and Invitation to Bid
T1.2	Bid Data

Part T2: Returnable documents

T2.1	List of Returnable Documents
T2.2	Returnable Schedules

The Contract

Part C1: Agreement and Contract Data

C1.1	Form of Offer and Acceptance
C1.2	Contract Data
C1.3	Construction Guarantee
C1.4	Adjudicators appointment

Part C2: Pricing data

C2.1	Pricing Instructions
C2.2	Activity Schedule or Bills of Quantities

Part C3: Scope of Work

C3	Scope of Work
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Part C4: Site information

C4	Site Information
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Addenda

INDEPENDENT DEVELOPMENT TRUST

T1.1 Bid Notice and Invitation to Bidder

INDEPENDENT DEVELOPMENT TRUST

T1.2 Bidder Data

The conditions of bidding are the Standard Conditions of Bidding as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of bidders as an Annex to this Bid Data.

The Standard Conditions of Bid make several references to the Bid Data for details that apply specifically to this Bid. The Bid Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of Bid. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Bid to which it mainly applies.

The additional conditions of bidder are:

Clause number	Bidder Data for BID NO: BID No: DOEEC/12/2023/2024
F.1.1	The employer is the Independent Development Trust, Eastern Cape Region
F.1.2	The bid documents issued by the employer comprises: T1.1 Bid notice and invitation to bid T1.2 Bid data T2.1 List of returnable documents T2.2 Returnable schedules Part 1: Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Form of Guarantee C1.4 Adjudicator's appointment Part 2: Pricing data C2.1 Pricing instructions C2.2 Activity schedules / Bills of Quantities Part 3: Scope of work C3 Scope of work Part 4 : Site information C4 Site information
F.1.4	The employer's agent is: Name: Bartsch Architects Address: 20 BALFOUR ROAD, VINCENT, EL, 5217 Tel 043 727 0765 E-mail: mario@bartschec.co.za
F.2.1	Only those bidders who are registered with the CIDB or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum Bided for a Grade 5GB or higher class of construction work, are eligible to submit Bids. Joint ventures are eligible to submit Bids provided that: - every member of the joint venture is registered with the CIDB; - the lead partner has a contractor grading designation in the Grade 5GB or higher class of

- construction work; and
- the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum Bided for a **(5GB or higher) General Building** class of construction work.

F.2.7 Compulsory briefing with representatives of the employer

F.2.12 No alternative Bid offers will be considered

F.2.13.3 Parts of each Bid offer communicated on paper shall be submitted as one original (i.e., no copies should be submitted).

F.2.13.5 The employer's address for delivery of Bid offers and identification details to be shown on each Bid offer
F.2.15.1 package are:

Location of Bid box: Physical address: -

INDEPENDENT DEVELOPMENT TRUST OFFICES

Palm Square Business Park
Silverwood House, Beacon Bay
EAST LONDON
5201

Identification details:

Project no: BID No: DOEEC/12/2023/2024

Title: Provision of a single Grade R classroom and ablution blocks with playground amenities at Mampelazwe Junior Primary School, Flagstaff (Taweni), O.R Tambo District Municipality.

Postal address: Palm Square Business Park, Silverwood House, Bonza Bay Road, Beacon Bay, 5201

F.2.15 The closing time for submission of Bid offers is as stated in the Bid Notice and Invitation to Bid.

Closing date: 28 August 2023

Closing time: 11h00

F.2.15 Telephonic, Telegraphic, Telex, Facsimile or E-mailed Bid offers will not be accepted.

F.2.16 The Bid offer validity period is **90 (Ninety) days**.

F.2.17 The contract duration is **8 Months** from date of Site Handover.

F.2.23 The Bidder is required to submit with his Bid a Certificate of Contractor Registration issued by the Construction Industry Development Board; Compensation of Injury Diseases Act certificate (COIDA). Where a Bidder Bids through joint venture formation, such bidders should include a joint venture agreement duly signed by each partner.

F.3.4 Bids will not be opened in public after the closing time; they will be posted on the IDT Website within 7 days of closure.

F.3.11 Bid offers will only be accepted if the following are submitted

No	Gate Keeper (Compulsory) Criteria	Gate Keeper Criteria Description
1	Proof of authority to sign the document must be submitted e.g. company resolution (if there is more than one director)	Proof of authority to sign the document must be submitted on Company Letterhead e.g. company resolution.
2	Letter of good standing/Copy of registration (COIDA/FEM/RAM) from the	Valid Letter of Good Standing (Workman's Compensation, COIDA) or RMA or FEM Letter of Good Standing. If JV all

	Department of Labour	partners must submit
3	CIDB Grading Certificate.	Required valid and active CIDB Grading equivalent for the works. JV's to submit consolidated CIDB Grading.
4	Fully & Duly Completed Detailed Bill of Quantities (BOQ), Written In Black Ink	All items in the original Bill of Quantities must be priced (rates and amounts and totals) with the exception of preliminaries (contractor can select options in line with the PBA JBCC March 2005 Edition 4.1), written in Ink.
5	Consortium / Joint Venture Agreement	If Applicable , JV Agreement signed by all parties of the JV.
6	Duly Completed Form of Offer	Fully & Duly Completed and Signed form of offer and witnessed. All blanks spaces must be completed.
7	Duly completed and signed Invitation to BID, Part A and B (SBD 1)	Fully & Duly Completed and signed Invitation to BID, Part A and B (SBD 1). All blank spaces must be completed. Bidders to indicate items that are not applicable.
8	Bidders Disclosure (SBD 4)	Fully & Duly Completed and Signed Declaration of Interest Form (SBD 4). All blank spaces must be completed. Bidders to indicate items that are not applicable.
9	Duly Completed and Signed Preference points claim form in terms of PPPFA, Procurement Regulations 2017 (SBD 6.1)	Fully & Duly Completed and Signed Preference points claim form in terms of PPPFA, Procurement Regulations 2017 (SBD 6.1). All blanks spaces must be completed. Bidders to indicate items that are not applicable.
10	No Copies, no correctional fluids, erasable pen or a lead pencil will be used on any of the submitted forms. Only black ink must be used to complete documents. Any mistakes must be neatly crossed out and countersigned by all relevant parties.	No Copies, no correctional fluids, erasable pen or a lead pencil will be used on any of the submitted forms. Only black ink must be used to complete documents. Any mistakes must be neatly crossed out and countersigned by all relevant parties.
11	Acknowledgement of Addenda to the Bid document	To be completed and signed
12		

Instruction notes:

- All blanks spaces must be completed on all the SBD forms.
- Bidders to indicate items that are not applicable to them on all the forms.
- Bidders are advised to fill in the correct information on all the SBD forms.
- Bidders are encouraged to familiarize themselves with the project site in order to assist them in planning, pricing and executing the project.
- All Bidders are required to be registered on CSD (Central Supplier Database) with National Treasury.
- Please Provide CSD Registration report with supplier number with your Bid.

Functionality Criteria

Variables	Total Points	Criteria	Description Of Criteria	Points
<u>Functionality Points</u>	100			
Experience on		Excellent	Points allocated for proven	40

BID

7

T1.1

Part T1: Bidding procedures

Bid Notice and Invitation to Bid

BID No: DOEEC/12/2023/2024

Variables	Total Points	Criteria	Description Of Criteria	Points
similar scale projects	40	Very good	records of accomplishment based on the similar scale of previous projects executed by bidder.	32
		Good		24
		Satisfactory		16
		Poor		8
		Not acceptable		0
Qualifications & competencies of key staff	25	Very Good	Points allocated for required competencies and qualifications of allocated personnel for the projects in consideration	25
		Good		20
		Satisfactory		15
		Poor		5
		Very poor		1
		Not submitted		0
Project Specific Programme schedule and cash flow	10	Very good	Points allocated for turn-around projects delivery period and detail project submission by bidder/bidder in consideration	20
		Good		18
		Satisfactory		14
		Poor		8
		Unacceptable		0
Client References	25	Excellent	Points allocated for previous client references and submission in relation to nature of work in Relevant Experience (Returnable schedule) of the Bid Document.	25
		Good		20
		Fair		15
		Poor		10
		Very poor		5

Notes:

- 1. Bidders are required to score minimum of 65 points (65%) for Functionality stated in Bid data.**
- 2. Bidders who fail to meet the required minimum number of points for functionality stated in the Bid data will not be evaluated further**
- 3. Bidders who fail to submit information as per the returnable schedules will not be allocated points.**

Scoring Quality (Functionality)

A maximum equal to **100 bid evaluation points** will be awarded for Functionality. Only bidders who score 65% and above (i.e. 65 points and above out of a total of 100 points) will be further evaluated in terms of the 80/20 price/preference points system.

Functionality will be scored using the following values:

Functionality area	Points
Previous Experience	40
Qualification and Competency	25
Project Schedule	10
Client References	25
Total	100 points

Previous/Relevant Experience on Similar Construction Projects (40 points):

Points are allocated for relevant experience on similar construction projects completed in the past 7 years. Similarity refers to projects of similar kind, complexity and value in terms of the CIDB categorization. In support bidders are to complete the “Similar Project Experience” returnable schedule.

Evaluation points will be awarded in terms of the following table:

Number of Similar Construction Projects completed in the last 10 years	Number of points
5	40
4	32
3	24
2	16
1	8
0	0

Value of work evaluation (No points will be allocated for value of works for Civil Engineering Projects, Water, Transport, Traffic Engineering and all Electrical & Mechanical Projects)

Value of work (4GB)	Rating
3.1m and above	Very Good
2.1m – 3m	Good
1.1m – 2m	Satisfactory
0.51m – 1m	Poor
0m – 0.5m	Not Submitted

Value of work (5GB)	Rating
5.1m and above	Excellent
4.1m – 5m	Very Good
3.1m – 4m	Good
2.1m – 3m	Satisfactory
1.1m – 2m	Poor
0m – 1m	Not Submitted

Value of work (7GB)	Rating
20.1m and above	Very Good
10.1m – 20m	Good
5.1m – 10m	Satisfactory
2.1m – 5m	Poor
0m – 2m	Not Submitted

Contracting Document

JBCC Series 2000 PBA March 2005, Edition 4.1

Qualifications and Key Personnel (25 points):

Points are allocated for educational qualifications and professional registration of allocated key personnel for the project under consideration. For each key personnel allocated to the project, the bidders shall submit for following: Curriculum Vitae together with certified proof of qualifications and professional registration.

Evaluation points will be awarded in terms of the following tables:

Highest qualifications and Professional Registration (13 points)

Category	Qualification		Professional Registration	
	Degree/BTech	Diploma	Yes	No
Contract Director/Manager	5	2	2	0
Site Agent/Manager	5	2	1	0
Subtotal number of points	10	4	3	0

Competence of Key Personnel (Subtotal 12 Points)

Category	Experience			
	Between 1- 4 years	Between 4-8years	Between 8-12years	Over 12 years
Contract Director/Manager	2	4	5	6
Site Agent/Manager	2	4	5	6
Subtotal number of points	4	8	10	12

Project Schedule (10 points)

Points are awarded for project duration undertaking as per returnable activity schedule B1.2. This represents only key project deliverables and runs from the assumed start date indicated, for purposes of uniformity and ease of comparison.

The submitted Programme must be project specific.

Failure to populate returnable schedule B1.2 in full will result in zero points awarded, alternatively a properly populated Gantt chart will be acceptable (Construction Programme on MS Project or similar is also acceptable).

(NB: Bidders reminded that penalty clause is applicable in the event that bidders offer unrealistically short duration just to score higher points)

The shortest realistic project duration will receive 20 points, with comparative duration awarded points in line with the formula below:

$$\text{PrSc} = 10 \times (\text{Dm}/\text{D})$$

Where:

PrSC = No. of points scored for project schedule

Dm = lowest acceptable comparative project duration in Days

D = Comparative project duration in days of Bid under consideration

Client References (25 points)

The Bidder shall provide details of his performance on each of the previous projects listed in the “Similar Relevant Experience” returnable schedule. Client References” scorecards will be completed by each of the respective Clients for the projects listed in the “Similar Relevant Experience” returnable schedule. Forms not signed, stamped and completed by the client will result in no allocation of points (zero points).

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Program management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

EVALUATION SCHEDULE: CLIENT REFERENCES

The Bidder shall provide details of his performance on each of the previous projects listed in the "Similar Relevant Experience" returnable schedule. Client References" scorecards will be completed by each of the respective Clients for the projects listed in the "Similar Relevant Experience" returnable schedule. Forms not signed, stamped and completed by the client will result in no allocation of points (zero points).

The following are to be completed by the Client:

PROJECT 1: Name & Scope –

Client Department:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Program management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks to be considered necessary to assist in the evaluation of the contractor?

.....

Name of Client Representative:

Designation:

Telephone:

Client Signature:..... **Date:**

Stamp

EVALUATION SCHEDULE: CLIENT REFERENCES

The Bidder shall provide details of his performance on each of the previous projects listed in the "Similar Relevant Experience" returnable schedule. Client References" scorecards will be completed by each of the respective Clients for the projects listed in the "Similar Relevant Experience" returnable schedule. Forms not signed, stamped and completed by the client will result in no allocation of points (zero points).

The following are to be completed by the Client:

PROJECT 2: Name & Scope –

Client Department:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Program management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks to be considered necessary to assist in evaluation of the contractor?

.....

Name of Client Representative:

Designation:

Telephone:

Client Signature: **Date:**

Stamp

EVALUATION SCHEDULE: CLIENT REFERENCES

The Bidder shall provide details of his performance on each of the previous projects listed in the “Similar Relevant Experience” returnable schedule. Client References” scorecards will be completed by each of the respective Clients for the projects listed in the “Similar Relevant Experience” returnable schedule. Forms not signed, stamped and completed by the client will result in no allocation of points (zero points).

The following are to be completed by the Client:

PROJECT 3: Name & Scope –

Client Department:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Program management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks to be considered necessary to assist in evaluation of the contractor?

.....

Name of Client Representative:

Designation:

Telephone:

Client Signature: **Date:**

Stamp

EVALUATION SCHEDULE: CLIENT REFERENCES

The Bidder shall provide details of his performance on each of the previous projects listed in the "Similar Relevant Experience" returnable schedule. Client References" scorecards will be completed by each of the respective Clients for the projects listed in the "Similar Relevant Experience" returnable schedule. Forms not signed, stamped and completed by the client will result in no allocation of points (zero points).

The following are to be completed by the Client:

PROJECT 4: Name & Scope –

Client Department:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Program management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks to be considered necessary to assist in evaluation of the contractor?

.....

Name of Client Representative:

Designation:

Telephone:

Client Signature: **Date:**

Stamp

EVALUATION SCHEDULE: CLIENT REFERENCES

The Bidder shall provide details of his performance on each of the previous projects listed in the “Similar Relevant Experience” returnable schedule. Client References” scorecards will be completed by each of the respective Clients for the projects listed in the “Similar Relevant Experience” returnable schedule. Forms not signed, stamped and completed by the client will result in no allocation of points (zero points).

The following are to be completed by the Client

PROJECT 5: Name & Scope –

Client Department:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Program management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks to be considered necessary to assist in evaluation of the contractor?

.....

Name of Client Representative:

Designation:

Telephone:

Client Signature: **Date:**

Stamp

EVALUATION SCHEDULE: SIMILAR PROJECT EXPERIENCE

The Bidder shall provide details of his performance on each of the previous relevant projects. Bidders must provide/attach appointment letter and Completion certification in a form of **Practical** or **Final completion** certificate listed under the “**Similar Project Experience**” returnable schedule below.

Failure to complete the table below will result in no points allocated. **No “see attached” will be accepted**

LIST THE <u>FIVE</u> SIMILAR PROJECTS EXPERIENCE COMPLETED BY YOUR FIRM IN THE LAST TEN (10) YEARS			
Name of Project Completed and Scope of work	Name of Project Manager & Telephone no.	Name of Client & Telephone no.	Value of Project
Project 1:			
Project 2:			
Project 3:			
Project 4:			
Project 5:			

Preferential procurement system (20 points)

80/20 preferential procurement system to be utilized as per PPPFA 2022. The project is below R50m.

Variables	Total Points	Criteria	Description Of Criteria	Points
Financial Offer / Price:				
Financial Offer/Price	80	Formula=2 Option 1, $A=(1-\{p-pm/pm\})$	Formula used to calculate financial offer/price points	
		Pm=The comparative Price offer of the mean/average quantifying Bidder		
		P=The comparative offer of the Bid under consideration		

The specific goals allocated points in terms of this Bid	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the Bider)
Women	6	
Youth	6	
People with Disabilities	4	
Black	4	
TOTAL POINTS CLAIMED	20	

LIST OF RETURNABLE SCHEDULES

Returnable Schedules required only for Bid evaluation purposes (certified copies not older than six months or originals of the following documents):

No	Non-Statutory (Non-Compulsory) Requirements	Non-Statutory (Non-Compulsory) Requirements Description
1	Checklist for Bid Submission	Checklist for Bid Submission
2	Details of Bid	Details of Bid
3	Certificate of Compliance with Bid Documentation	Certificate of Compliance with Bid Documentation
4	Letter of Intent to Provide Security / Guarantee	Letter of Intent to Provide Security/ Guarantee from accredited financial institution
5	Litigation History	Litigation History – bidder to disclose all the pending litigations against their company
6	BBBEE certificate	Points allocated to entities who are contributing towards the empowerment of black people (an Original Sworn Affidavit B-BBEE or SANAS accredited B-BBEE Certificate MUST be submitted with the bid documents before any points can be allocated) Bidders to submit Original Sworn Affidavit B-BBEE or SANAS certified copies not older than 6 months). Joint Ventures / Consortia entities must submit a consolidated B-BBEE certificate from SANAS-Accredited verification agency in order to qualify for points for their B-BBEE status level as an incorporated entity. Sworn affidavits for joint ventures will not be considered.
7	CSD	Central Supplier Database Registration
8	Proposed Project Organogram	Proposed Project Organogram
9	Tax Clearance certificate	Submission of valid Tax compliance status form (PIN)

Notes:

1. Bidders are required to score minimum points of 65 for Functionality stated in Bid data.
2. Bidders who fail to meet the required minimum number of points for functionality stated in the bid data will not be evaluated further.
3. Bidders who fail to submit information as per the returnable schedules will not be allocated point

B1.2 Project Shedule

Project Start Date		A		
B1.2 (a) Site preparation and fencing				
Item No.	Description of activity	Start Date	Finish Date	No. of Calendar days
		B	C	D
1				
2				
3				
B1.2 (b) Construction of new school facility				
Item No.	Description	Start Date	Finish Date	No. of Calender days
		E	F	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
B1.2 (c) Finishing				
Item No.	Description of activity	Start Date	Finish Date	No. of Calendar days
		H	I	J
22	Commissioning of Services; water, sewer, electricity and HAND OVER			
B1.2 (d) Summary: Project Duration				
	Project Start Date	Project Finish / Hand Over Date (P)	Total Number of Calendar Days (I - A)	
	A	I	K	

Record of Addenda to Bid documents

We confirm that the following communications received from the Employer before the submission of this Bid offer, amending the Bid documents, have been taken into account in this Bid offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Attach additional pages if more space is required.

Signed

Date

Name

Position

Identity
number

Bidder

This section must be completed in full and aligned to attachments, organogram submitted failure to do so will result in no allocation of points.

CURRICULUM VITAE OF KEY PERSONNEL (COMPULSORY)

(CVs and Certified Qualifications that are not older than 6 months are required only for site-agent and contract or project manager).

CV FOR CONTRACT OR PROJECT MANAGER

Name:	Date of birth:
Profession:	Nationality:
Qualifications:	
Professional Registration Number:	
Name of Employer (firm):	
Current position:	Years with firm:
<u>Employment Record:</u>	
<u>Experience Record Pertinent to Required service:</u>	

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

SIGNATURE: IDENTITY NUMBER:

(of person authorised to sign on behalf of the Bider)

DATE:.....

CV FOR SITE AGENT

Name:		Date of birth:
Profession:		Nationality:
Qualifications:		
Professional Registration Number:		
Name of Employer (firm):		
Current position:		Years with firm:
<u>Employment Record:</u>		
<u>Experience Record Pertinent to Required service:</u>		

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....
SIGNATURE OF THE INCUMBANT IN THE SCHEDULE

.....
DATE

.....
INCUMBANT'S IDENTITY NUMBER

INDEPENDENT DEVELOPMENT TRUST

C1.1 Form of Offer and Acceptance Offer

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of:

Provision of a single Grade R classroom and ablution blocks with playground amenities at Mampelazwe Junior Primary School, Flagstaff (Taweni), O.R Tambo District.

The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the tenderer offers to perform all of the obligations and liabilities of the contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:

.....
.....

.....
. Rand (in words);

R (in figures)

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature Date

.....

Name Identity number

.....

Capacity

for the tenderer

(Name and
.....
address of
organization)
.....

Name and
signature
of witness
.....

NOTE: Failure of a Bidder to complete and sign this part of the tender form (offer) in full including witnessing will invalidate the tender. Any blank spaces left will invalidate this offer.

By signing this part of this form of offer and acceptance, the employer identified below accepts the tenderer's offer. In consideration thereof, the employer shall pay the contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the tenderer's offer shall form an agreement between the employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

- Part C1: Agreements and contract data, (which includes this agreement)
- Part C2: Pricing data
- Part C3: Scope of work.
- Part C4: Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfill any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document,

including the schedule of deviations (if any). Unless the tenderer (now contractor) within five working days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature Date

.....

Name Identity number

.....

Capacity

for the

Employer

INDEPENDENT DEVELOPMENT TRUST

IDT Eastern Cape Office

Palm Square Business Park, Silverwood House, Beacon Bay

EAST LONDON

5200

Name and
signature

of witness

..... Date

.

Schedule of Deviations

1 Subject

.....

Details

.....

.....

.....

.....

.....

.....

.....

tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (INDEPENDENT DEVELOPMENT TRUST (IDT))					
BID NUMBER:	DOEEC/12/2023/2024		CLOSING DATE: 28 AUGUST 2023		CLOSING TIME: 11:00
DESCRIPTION	Provision of a single Grade R classroom and ablution blocks with playground amenities at Mampelazwe Junior Primary School, Lusikisiki (Taweni), O.R Tambo District Municipality.				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
Independent Development Trust					
Palm Square Business Centre, Silverwood House					
Bonza Bay Road, Beacon Bay					
East London					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Mpho Gxashe		CONTACT PERSON	Momelezi Vellem	
TELEPHONE NUMBER	043 711 6000		TELEPHONE NUMBER	082 089 8729	
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS			E-MAIL ADDRESS	momelezivellem@gmail.com	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
SBD 6.1 REQUIREMENT MUST BE COMPLIED TO CLAIM POINTS ON SPECIFIC GOALS					
I. ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		II. ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				☐ YES ☐ NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				☐ YES ☐ NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?				☐ YES ☐ NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?				☐ YES ☐ NO	
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?				☐ YES ☐ NO	

IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).**

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE.”

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

.....

CAPACITY UNDER WHICH THIS BID IS SIGNED:

.....

(Proof of authority must be submitted e.g., company resolution)

DATE:

.....

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Bid Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

- 2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

- 2.2.1 If so, furnish particulars:
- _____

¹ The power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, _____ the _____ undersigned,
(name)..... in
submitting the accompanying bid, do hereby make the following statements
that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to

the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....	
Signature	Date
.....	
Position	Name of bidder

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all Bids invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE BID AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to Bid:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 **To be completed by the organ of state**

(delete whichever is not applicable for this Bid).

- a) The applicable preference point system for this Bid is the 80/20 preference point system.
- b) 80/20 preference point system will be applicable in this Bid.
The lowest/ highest acceptable Bid will be used to determine the accurate system once Bids are received.

1.3 Points for this Bid (even in the case of a Bid for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this Bid are allocated as follows:

	POINTS	
PRICE	90	80
SPECIFIC GOALS	10	20
TARGETED GROUP		
Women	3	6
Youth	3	6
People with Disabilities	2	4
Black	2	4
Total points for Price and SPECIFIC GOALS	100	100

- 1.5 Failure on the part of a Bidder to submit proof or documentation required in terms of this Bid to claim points for specific goals with the Bid, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a Bidder, either before a Bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“bid”**
means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive Bidding process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;

- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“Bid for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20	or	90/10
$P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$	or	$P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$

Where

P_s = Points scored for price of Bid under consideration

P_t = Price of Bid under consideration

P_{min} = Price of lowest acceptable Bid

3.1. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.1.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20

or

90/10

$$Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) \quad \text{or} \quad Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

Where

Ps = Points scored for price of Bid under consideration

Pt = Price of Bid under consideration

Pmax = Price of highest acceptable Bid

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the Bid. For the purposes of this Bid the Bidder will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this Bid:

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the Bid documents, stipulate in the case of—

(a) an invitation for Bid for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable Bid will be used to determine the applicable preference point system; or

(b) any other invitation for Bid, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable Bid will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the Bid and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to Bidders: The Bider must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this Bid	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the Bider)	Number of points claimed (80/20 system) (To be completed by the Bider)
Women	3	6		
Youth	3	6		
People with Disabilities	2	4		
Black	2	4		

Source Documents to be submitted with the Bid or RFQ

- *CIPC Document (Company Registration Document will be required for verification (CIPC DOC))
- *Woman (Originally Certified ID Document)
- *Youth (Originally Certified ID Document)
- *People with Disability (Letter from the Dr. Confirming the Disability)
- *Black Ownership (Originally Certified ID Document)

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:
.....

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the Bid, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the Bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the Bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and

(e) forward the matter for criminal prosecution, if deemed necessary.

.....	
SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME:	
DATE:	
ADDRESS:	
	

INDEPENDENT DEVELOPMENT TRUST

C1.2 Contract Data for BID NO: DOEEC/12/2023/2024

The Conditions of Contract are clauses 1 to 41 of the **JBCC Series 2000 Principal Building Agreement (Edition 4.1 March 2005)** published by the Joint Building Contracts Committee.

Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors (011-3154140), Master Builders Association (011-205-9000; 057-3526269) South African Association of Consulting Engineers (011-4632022) or South African Institute of Architects (051-4474909; 011-4860684; 053-8312014;)

The JBCC Principal Building Agreement makes several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the JBCC Principal Building Agreement.

Each item of data given below is cross-referenced to the clause in the JBCC Principal Building Agreement to which it mainly applies.

The additions, deletions and alterations to the JBCC Principal Agreement are:

Clause	Additions, deletions and alterations
--------	--------------------------------------

- | | |
|-----|--|
| 1.1 | <p>Replace the following definitions in DEFINITIONS AND INTERPRETATIONS with the following wording:</p> <p>AGREEMENT means the agreement arising from the signing of the Form of Offer and Acceptance by the parties.</p> <p>BILLS OF QUANTITIES means the document drawn up in accordance with the Pricing Instructions contained in the Pricing Data.</p> <p>CONSTRUCTION PERIOD means the period commencing on the date of site hand over and ending on the date of practical completion.</p> <p>CONTRACT DOCUMENTS means the Agreement and all documents referenced therein.</p> <p>CONTRACT DRAWINGS means the drawings listed in the Scope of Work.</p> <p>CONTRACT SUM means the total of prices in the Form of Offer and Acceptance.</p> <p>SCHEDULE means the variables listed in the Contract Data.</p> <p>CORRUPT PRACTICE means the offering, giving, receiving and soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution</p> <p>FRAUDULENT PRACTICE means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any Bider, and includes collusive practice among bidders (prior to or after the Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the Bider of the benefits of free and open competition.</p> <p>INTEREST means the interest rates applicable to this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).</p> <p>SECURITY means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss.</p> |
| 1.6 | <p>Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice shall be presumed to have been duly given when:</p> |

- Delete sub-clause 1.6.4
- 3.5 Delete sub-clause 3.5
- 3.6 Delete sub-clause 3.6.
- 3.7 Add to the end thereof:
- The **contractor** shall supply and keep a copy of the **JBCC** Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the **employer**, **principal agent** and **agents** shall have access at all times.
- 3.9 Delete sub-clause 3.9
- 3.10 Replace the second reference to “**principal agent**” with the word “**employer**”.
- 4.3 No clause
- 5.1.2 Under clause 41 – include reference 32.6.3; 34.3; 34.4 and 38.5.8 in terms of which the **employer** has retained its authority and has not given a mandate to the **principal agent** and in terms of which the **employer** shall sign all documents.
- 9 Clause 9.0 is amended by adding Clause 9.1.4:
- The **contractor** indemnifies and holds harmless the **employer** against all liability, losses, claims, damages, penalties, actions, proceedings or judgments (collectively referred to as “Losses”) arising from any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the **contractor**, but such indemnity shall not cover any use of the equipment of part thereof otherwise than in accordance with the provisions of the specification. All payments and royalties payable in one sum or by installments or otherwise shall be included by the **contractor** in the price and shall be paid by him to those to whom they may be payable. The **contractor** shall reimburse the **employer** for all legal and other costs and expenses, including without limitation attorney’s fees on attorney-client scale incurred by the **employer** in connection with investigation, defending or settling any Losses in connection with pending or threatening litigation in which the **employer** is a party.
- 10.5 Add the following as 10.5:
- Damage to the works**
- (a) Without any way limiting the **contractor’s** obligations in terms of the contract, the **contractor** shall
 bear the full risk of damage to and/or destruction of the **works** by whatever cause during
 construction of the **works** and hereby indemnifies and holds harmless the **employer** against any
 such damage. The **contractor** shall take such precautions and security measures and other steps
 for the protection and security of the **works** as the **contractor** may deem necessary.
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising
 from damage or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**.
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by
 The **employer** that is the result of the expected risks as set out in 10.6.

- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof.

10.6 Add the following as 10.6:

Injury to Persons or loss of or damage to Properties

(a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss,
claim or proceeding whether arising in common law or by statute, consequent upon personal injuries
to or the death of any person whomsoever arising out of or in the course of or caused by the
execution of the **works** unless due to any act or negligence of any person for whose actions the
employer is legally liable.

(b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss,
claim or proceeding consequent upon loss of or damage to any moveable, or immovable
property or personal property or property contiguous to the **site**, whether belonging to or under the
control of the **employer** or any other body or person, arising out of or in the course of or by reason of
the execution of the **works** unless due to any act or negligence of any person for whose actions the
employer is legally liable.

(c) The **contractor** shall upon receiving a **contract instruction** from the **principal agent** cause the
same to be made good in a perfect and workmanlike manner at his own cost and in default thereof
the **employer** shall be entitled to cause it to be made good and to recover the cost therefore from the
contractor or to deduct the same from amounts due to the **contractor**.

(d) The **contractor** shall be responsible for the protection and safety of such portions of the premises
placed under his control by the **employer** for the purpose of executing the **works** until the issue of
the **certificate of practical completion**.

(e) Where the execution of the **works** involves the risk of removal of or interference with support to
adjoining properties including land or structures or any structures to be altered or added to, the
contractor shall obtain adequate insurance and will remain adequately insured or insured to the
specific limit stated in the contract against the death of or injury to persons or damage to such
property consequent on such removal or interference with the support until such portion of the **works**
has been completed.

(f) The **contractor** shall at all times proceed immediately at his own cost to remove or

dispose of any debris and to rebuild, restore, replace and / or repair such property and to execute the **works**.

10.7 Add the following as 10.7:

HIGH RISK INSURANCE

In the event of the project being executed in a geological area classified as a “High Risk Area”, that is an area which is subject to highly unstable subsurface conditions which might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

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

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

10.7.2 Injury to persons or loss of or damage to property

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

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

10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the **commencement date** but before commencement of the **works** submit to the **employer** proof of such insurance policy, if requested to do so.

10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred subsequent upon the **contractor's** default of his obligations as set out in 10.7.1, 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered on indivisible whole.

15.1.4 Add 15.1.4 as follows:

An acceptable health and safety plan, required in terms of the Occupational Health and

Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) **calendar days** of date of acceptance of the Bid.

15.2.1 Under 41: Amend to read as follows:

Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1

20.1.3 No clause.

21 Replace sub-clauses 21.1.2 to 21.1.4 and 21.2 to 21.6 with the following:

The **contractor** and **principal agent** shall appoint a **selected subcontractor** in accordance with the provisions of the Scope of Work.

29 Clause 29.0 is amended by: -

i) The addition of the following clauses: -

Clause 29.9

"Revision to the date for **practical completion** shall only be considered when work on the critical path of the agreed programme for the works is delayed."

ii) Clause 29.10 – Acceleration

Clause 29.10.1

Irrespective of whether or not the **principal agent** rules that the **contractor** is entitled to an extension of time or a revision of the date for **practical completion**, the **principal agent** shall nevertheless, at any time, be entitled to instruct the **contractor** in writing to accelerate the progress of the remaining **works** to ensure that the **works** are completed by the original date for **practical completion** or revised date as the case may be.

Clause 29.10.2

Upon receipt of such instruction, the **contractor** shall take all necessary steps to ensure that the **works** are completed timeously including the provision by him of additional resources, plant, manpower, etc. and the working overtime or additional overtime beyond that contemplated at the time of Bid (at all times adhering to the regulations and requirements of all authorities) and by all other adequate and proper means and methods. The **contractor** shall prove that such steps are being taken if called upon to do so.

Clause 29.10.3

The **contractor's** entitlement to compensation arising out of or in respect of any revision to the date for **practical completion** that may have been granted by the **principal agent** or alternatively where the **principal agent** has instructed the **contractor** to accelerate, shall be adjudicated strictly in terms of clause 32.

30.1 Replace reference to 36.3 at end of sentence with 36.0

31.12 Delete "Payment shall be subject to the **employer** giving the **contractor** a **tax** invoice for the amount due."

32.5.1 Add the following to the end of each of these clauses: "... due to no fault of the **contractor**."

32.5.4

32.5.7

32.12 Delete sub-clause

34.2 Add # next to 34.2

- 34.13 Replace “seven (7) **calendar days**” with “thirty-one (31) **calendar days**” and delete the words “subject to the **employer** giving the **contractor** a **tax** invoice for the amount due”
- 36.1 Add the following clauses 36.1.3 to 36.1.5 under 36.1 to read as follows:
- 36.1.3 The **contractor’s** refusal or neglect to comply strictly with any of the conditions of contract.
- 36.1.4 The **contractor’s** estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force with the Republic of South Africa.
- 36.1.5 The **contractor**, in the judgment of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract.
- 36.3 Replace “**principal agent**” with “**employer**”.
- 37.3.5 Replace “ninety (90)” with “one hundred and twenty (120)”.
- 38.5.4
- 39.3.5 Add the following words at the end thereof: “within one hundred and twenty (120) **working days** of completion of such a report.”
- 1.1 Delete in the Substitute Provisions (41.0 State Clauses) clause 41.1.3 the definitions for
(41.1.3) **CONSTRUCTION PERIOD** and **INTEREST**. Sub-clause 1.1 definitions will apply (see contract data)
- 10.1 Delete in the Substitute Provisions (41.0 State Clauses) clauses 10.1, 10.2 and 10.4 so that
10.2 the provisions of sub-clauses 10.1, 10.2 and 10.4 of the non-**state** clauses will apply to the
10.4 **state**.
(41.0)
- 11.1 Delete in the Substitute Provisions (41.0 State Clauses) clause 11.1 so that the provisions
(41.0) of clause 11.1 of the non-**state** clause will apply to the **state**.
- 12.1 Delete in the Substitute Provisions (41.0 State Clauses) clause 12.1 so that the provisions
(41.0) of clause 12.1 of the non-**state** clause will apply to the **state** and replace “**contractor**” in clause 10.1 in the Substitute Provisions (41.0 State Clauses) with “The party responsible in terms of 12.1”
- 12.2 Amend the first part of the first sentence in clause 12.2 of the Substitute Provisions (41.0
(41.0) State Clauses) to read “Where the **contractor** is responsible for insurances, the **contractor** shall”
- 31.11.1 Delete in the Substitute Provisions (41.0 State Clauses) sub-clauses 31.11.1 and 31.11.2
31.11.2 so that the provisions of sub-clause 31.11.1 of the non-**state** clause will apply to the **state**.
(41.0)
- 36.7 Add in the Substitute Provisions (41.0 State Clauses) as clauses 36.7, 37.5 and 39.5, the
37.5 following:
39.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the
(41.0) **employer** or the **contractor**, or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a stated date and withdraw himself from the **site**. The contractor shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever.
- 40.2.1 Delete in the Substitute Provisions (41.0 State Clauses) clauses 40.2.1, 40.2.2, 40.3, 40.4,
40.2.2 40.5 and 40.6 and replace with the following:

40.3
40.4
40.5
40.6
(41.0)

- 40.1 Should any dispute between the **employer**, his **agents** or **principal agent** on the one hand and the contractors on the other arise out of this **agreement**, such dispute shall be referred to adjudication.
- 40.2 Adjudication shall be conducted in accordance with the edition of the JBCC Rules for Adjudication current at the time when the dispute is declared. The party, which raises the dispute, shall select three adjudicators from the panel of adjudicators published by the South African Institution of Civil Engineering or Association of Arbitrators (Southern Africa), determine their hourly fees and confirm that these adjudicators are available to adjudicate the dispute in question. The other party shall then select within 7 days one of the three nominated adjudicators, failing which the chairman for the time being of the Association of Arbitrators (Southern Africa) shall nominate an adjudicator. The **adjudicator** shall be appointed in terms of the Adjudicators Agreement set out in C1.4.
- 40.3 If provided in the **schedule**, a dispute shall be finally settled by a single Arbitrator to be agreed on between the parties or, failing such agreement within 28 days after referring the dispute to Arbitration, an Arbitrator nominated by the chairman for the time being of the Association of Arbitrators (Southern Africa). Any such reference shall be deemed to be a submission to the arbitration of a single arbitrator in terms of the Arbitration Act (Act No 42 of 1965, as amended), or any legislation passed in substitution therefore. In the absence of any other agreed procedure, the arbitration shall take place in accordance with the Rules for the Conduct of Arbitrations issued by the Association of Arbitrators (Southern Africa) which are current at the time of the referral to arbitration. The Arbitrator shall, in his award, set out the facts and the provisions of the contract on which his award is based.
- 40.4 If the **schedule** provides for court proceedings to finally resolve disputes, disputes shall be determined by court proceedings.

The additions to the JBCC Principal Agreement are:

Clause	Additions	
A1	A1.0	Labour intensive component of the works
	A1.1	Payment of labor-intensive component of the works. Payment for works identified in the Scope of Work as being labor-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.
	A1.2	Applicable labour laws The Ministerial Determination, Special Public Works Programme, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice N° 35310 04 May 2012, as reproduced below, shall apply to works described in the Scope of Work as being labour intensive and which are undertaken by unskilled or semi-skilled workers.
	1	Introduction
	1.1	This document contains the standard terms and conditions for workers employed in elementary occupations on a Special Public Works Programme (SPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of a SPWP.
	1.2	In this document – (a) “department” means any department of the State, implementing agent or contractor; (b) “employer” means any department, implementing agency or contractor that hires workers to work in elementary occupations on a SPWP; (c) “worker” means any person working in an elementary occupation on a SPWP; (d) “elementary occupation” means any occupation involving unskilled or semi-skilled work; (e) “management” means any person employed by a department or implementing agency to administer or execute an SPWP; (f) “task” means a fixed quantity of work; (g) “task-based work” means work in which a worker is paid a fixed rate for performing a task; (h) “task-rated worker” means a worker paid on the basis of the number of tasks completed (i) “time-rated worker” means a worker paid on the basis of the length of time worked.
	2	Terms of Work
	2.1	Workers are employed on a temporary basis or contract basis.
	3	Normal Hours of Work
	3.1	An employer may not set tasks or hours of work that require a worker to work– (a) more than forty hours in any week; (b) on more than five days in any week; and (c) for more than eight hours on any day.
	3.2	An employer and worker may agree that a worker will work four days per week. The worker may then work up to ten hours per day.
	4	Meal Breaks
	4.1	A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.
	4.2	An employer and worker may agree on longer meal breaks.
	4.3	A worker may not work during a meal break. However, an employer may require a worker to perform duties during a meal break if those duties cannot be left unattended and cannot be performed by another worker. An employer must take reasonable steps to ensure that a

		worker is relieved of his or her duties during the meal break.
	4.4	A worker is not entitled to payment for the period of a meal break. However, a worker who is paid on the basis of time worked must be paid if the worker is required to work or to be available for work during the meal break.
	5	Special Conditions for Security Guards
	5.1	A security guard may work up to 55 hours per week and up to eleven hours per day.
	5.2	A security guard who works more than ten hours per day must have a meal break of at least one hour or two breaks of at least 30 minutes each.
	6	Daily Rest Period
		Every worker is entitled to a daily rest period of at least eight consecutive hours. The daily rest period is measured from the time the worker ends work on one day until the time the worker starts work on the next day.
	7	Weekly Rest Period
		Every worker must have two days off every week. A worker may only work on their day off to perform work which must be done without delay and cannot be performed by workers during their ordinary hours of work ("emergency work").
	8	Sick Leave
	8.1	Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.
	8.2	A worker who is unable to work on account of illness or injury is entitled to claim one day's paid sick leave for every full month that the worker has worked in terms of a contract.
	8.3	A worker may accumulate a maximum of twelve days' sick leave in a year.
	8.4	Accumulated sick-leave may not be transferred from one contract to another contract.
	8.5	An employer must pay a task-rated worker the worker's daily task rate for a day's sick leave.
	8.6	An employer must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.
	8.7	An employer must pay a worker sick pay on the worker's usual payday.
	8.8	Before paying sick-pay, an employer may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is –
		(a) absent from work for more than two consecutive days; or (b) absent from work on more than two occasions in any eight-week period.
	8.9	A medical certificate must be issued and signed by a medical practitioner, a qualified nurse or a clinic staff member authorized to issue medical certificates indicating the duration and reason for incapacity.
	8.10	A worker is not entitled to paid sick-leave for a work-related injury or occupational disease for which the worker can claim compensation under the Compensation for Occupational Injuries and Diseases Act.
	9	Maternity Leave
	9.1	A worker may take up to four consecutive months' unpaid maternity leave.
	9.2	A worker is not entitled to any payment or employment-related benefits during maternity leave.
	9.3	A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.
	9.4	A worker is not required to take the full period of maternity leave. However, a worker may not work for four weeks before the expected date of birth of her child or for six weeks after the birth of her child, unless a medical practitioner, midwife or qualified nurse certifies that she is fit to do so.
	9.5	A worker may begin maternity leave –
		(a) four weeks before the expected date of birth; or

		(b) on an earlier date – (i) if a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or (ii) if agreed to between employer and worker; or (c) on a later date, if a medical practitioner, midwife or certified nurse has certified that the worker is able to continue to work without endangering her health.
	9.6	A worker who has a miscarriage during the third trimester of pregnancy or bears a stillborn child may take maternity leave for up to six weeks after the miscarriage or stillbirth.
	10	Family responsibility leave
	10.1	Workers, who work for at least four days per week, are entitled to three days paid family responsibility leave each year in the following circumstances -
		(a) when the employee's child is born; (b) when the employee's child is sick; (c) in the event of a death of – (i) the employee's spouse or life partner; (ii) the employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling.
	11	Statement of Conditions
	11.1	An employer must give a worker a statement containing the following details at the start of employment – (a) the employer's name and address and the name of the SPWP; (b) the tasks or job that the worker is to perform; and (c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract; (d) the worker's rate of pay and how this is to be calculated; (e) the training that the worker will receive during the SPWP.
	11.2	An employer must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement.
	11.3	An employer must supply each worker with a copy of these conditions of employment.
	12	Keeping records
	12.1	Every employer must keep a written record of at least the following –
		(a) the worker's name and position; (b) in the case of a task-rated worker, the number of tasks completed by the worker; (c) in the case of a time-rated worker, the time worked by the worker; (d) payments made to each worker.
	12.2	The employer must keep this record for a period of at least three years after the completion of the SPWP.
	13	Payment
	13.1	An employer must pay all wages at least monthly in cash or by cheque or into a bank account.
	13.2	A worker may not be paid less than the minimum wage rate of R185.52 per day or per task. This will be adjusted annually on the 1 st of November in line with inflation (available CPI as provided by Stats SA six (6) weeks before implementation)
	13.3	A task-rated worker will only be paid for tasks that have been completed.
	13.4	An employer must pay a task-rated worker within five weeks of the work being completed

		and the work having been approved by the manager or the contractor having submitted an invoice to the employer.
	13.5	A time-rated worker will be paid at the end of each month.
	13.6	Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.
	13.7	Payment in cash or by cheque must take place –
		(a) at the workplace or at a place agreed to by the worker; (b) during the worker's working hours or within fifteen minutes of the start or finish of work; (c) in a sealed envelope which becomes the property of the worker.
	13.8	An employer must give a worker the following information in writing –
		(a) the period for which payment is made; (b) the numbers of tasks completed or hours worked; (c) the worker's earnings; (d) any money deducted from the payment; (e) the actual amount paid to the worker.
	13.9	If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it.
	13.10	If a worker's employment is terminated, the employer must pay all monies owing to that worker within one month of the termination of employment.
	14	Deductions
	14.1	An employer may not deduct money from a worker's payment unless the deduction is required in terms of a law.
	14.2	An employer must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.
	14.3	An employer who deducts money from a worker's pay for payment to another person must pay the money to that person within the time period and other requirements specified in the agreement law, court order or arbitration award concerned.
	14.4	An employer may not require or allow a worker to –
		(a) repay any payment except an overpayment previously made by the employer by mistake; (b) state that the worker received a greater amount of money than the employer actually paid to the worker; or (c) pay the employer or any other person for having been employed.
	15	Health and Safety
	15.1	Employers must take all reasonable steps to ensure that the working environment is healthy and safe.
	15.2	A worker must –
		(a) work in a way that does not endanger his/her health and safety or that of any other person; (b) obey any health and safety instruction; (c) obey all health and safety rules of the SPWP; (d) use any personal protective equipment or clothing issued by the employer; (e) report any accident, near-miss incident or dangerous behavior by another person to their employer or manager.
	16	Compensation for Injuries and Diseases
	16.1	It is the responsibility of the employers (other than a contractor) to arrange for all persons

		employed to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.
	16.2	A worker must report any work-related injury or occupational disease to their employer or manager.
	16.3	The employer must report the accident or disease to the Compensation Commissioner.
	16.4	An employer must pay a worker who is unable to work because of an injury caused by an accident at work 75% of their earnings for up to three months. The employer will be refunded this amount by the Compensation Commissioner. This does NOT apply to injuries caused by accidents outside the workplace such as road accidents or accidents at home.
	17	Termination
	17.1	The employer may terminate the employment of a worker for good cause after following a fair procedure.
	17.2	A worker will not receive severance pay on termination.
	17.3	A worker is not required to give notice to terminate employment. However, a worker who wishes to resign should advise the employer in advance to allow the employer to find a replacement.
	17.4	A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.
	17.5	A worker who does not attend required training events, without good reason, will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.
	18	Certificate of Service
	18.1	On termination of employment, a worker is entitled to a certificate stating- (a) the worker's full name; (b) the name and address of the employer; (c) (d) the work performed by the worker; (e) any training received by the worker as part of the SPWP; (f) the period for which the worker worked on the SPWP; (g) any other information agreed on by the employer and worker.
A2	A2.0	Mandatory Sub-Contracting (Only for projects above R 30 Million)
	A2.1	The Contractor must sub-contract 30% of the work to Domestic Sub-Contractors. The Sub-Contractors shall have a CIDB grading.
		The Contractor shall, directly after appointment and without delay, enter into domestic sub-contracts with the Domestic Sub-Contractors and forward a copy of these agreements to the Principal Agent. The Contractor shall remain responsible for providing the subcontracted portion of the works as if the work had not been subcontracted.
		The Contractor will be responsible for all assistance and training required by the Sub-Contractor/s to complete the Project successfully. Irrespective of the mandatory sub-contracting requirement of this contract, the Contractor will at all times be the responsible party in accordance with the conditions of contract.
A3		
A4	A4.0	Attendance to Domestic Sub-Contractors in terms of clauses A2 above
	A4.1	The attendance of the Domestic Sub-Contractor appointed in terms of clauses A2 above shall be priced under the relevant specific preliminaries item in the Preliminaries Section of the Bills of Quantities.

A5	A5.0	
	A5.1	
A6	A6.0	Expanded Public Works Programme
	A6.1	The Contractor will be required to employ staff which satisfies the EPWP requirements as per the Guidelines for the implementation of labor-intensive infrastructure projects.

Part 1: Contract Data Completed by the Employer

Clause	Item and data
1.2	The Employer is THE INDEPENDENT DEVELOPMENT TRUST The address of the Employer is: Palm Square Business Park, Silverwood House, Beacon Bay, 5200 Telephone: 043 -711 6000 Facsimile: Address (physical): IDT East London, Palm Square Business Park, Silverwood House, Beacon Bay, 5200 Address (Postal): Palm Square Business Park, Silverwood House, Beacon Bay, 5200
5.1	The Principal Agent is Bartsch Architects Telephone: 043 727 0765 Facsimile: 043 727 0766 Address (physical): 50 Balfour Roads, Vincent, East London, 5217
5.2	Agent (1) is Bartsch Architects Agent's service: Architectural Services Telephone: 043 727 0765 Facsimile: 043 727 0766 Address (physical): 50 Balfour Roads, Vincent, East London, 5217
5.3	Agent (2) is MMPA Quantity Surveyors Agent's service: Quantity Surveying Services Telephone: 043 721 0077 Facsimile: 043 727 Address (physical): 14 Bonza Bay, Beacon Bay East London 5205
5.4	Agent (3) is: ZNM Consulting Civil & Structural Engineers Agent's service: Civil and Structural Engineering Telephone: (087) 350 4035 Facsimile: (086) 608 3511 Address (physical): 8A Bonza Bay Road, Beacon Bay, East London, 5205

5.5

Agent (4) is: Evans Consulting Engineers

Agent's service: Electrical Engineers

Telephone: (043) 721 3192

Facsimile: (043) 721 1553

Address (physical): 17 Surrey Road, Vincent, East London, 5217

Address (postal): P.O. Box 13526, East London, 5217

- 1.1 **The Works comprises** of the Construction of
- Provision of a single Grade R classroom and ablution blocks with playground amenities at Mampelazwe Junior Secondary School, Flagstaff (Taweni), O.R Tambo District.
- 1.1 THE **SITE** IS LOCATED AT MAMPELAZWE JUNIOR SECONDARY SCHOOL, FLAGSTAFF(TAWENI), O.R TAMBO DISTRICT, EASTERN CAPE PROVINCE
- 1.1 The **Works** or installations to be undertaken by **direct contractors** comprises
- 22.2
- Single Grade R classroom block (1 x Classroom, 1 x Offices, 1 x Sickbay, 1 x Store Rooms, Kitchen, Under Cover Play Area, VIP Toilet Block and Site Works generally comprise of the site clearance; bulk earthworks; covered and open walk ways; concrete aprons or storm water channels around building; site storm water drainage; rainwater tanks and tank stands on the ground and elevated tanks and stands; sand pit and jungle gym at Mampelazwe Junior Secondary School., Lusikisiki (Taweni), O.R Tambo District.
- 41.0 The Employer is an organ of **State**
- 31.11.2
- 11.2
 - The interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999) will apply.

31.4.2
 - Lateral support insurance is to be effected by the **contractor**

26.1.2
 - Payment will be made for materials and goods
 - Extended **defects** liability period will apply to the following elements:
NOT APPLICABLE

15.2.1 Possession of the **site** is to be given on the date in the schedule providing the **employer** with **construction guarantees** in accordance with the provisions of 14.0.

15.3 The period for the commencement of the **works** after the **contractor** takes possession of the site is ten (10) **working days**.

For the **works** as a whole:
The date for **practical completion** is 8 months after contractual commencement date
The **penalty** per **calendar day** is 0.04 per R100 of the contract value

1.2 The law applicable to the agreement shall be that of the Republic of South Africa.

10.1; 10.2 Contract insurance is to be effected by the **contractor**.

and 12.1

10.1 Contract works insurance is to be effected by the **contractor** for a sum not less than the

10.2 **contract sum plus 20%** with a deductible in an amount that the **contractor** deems appropriate.

12.1

10.1 Supplementary insurance is required. Such insurance shall comprise a Coupon Policy for

10.2 Special Risks issued by the South African Special Risk Insurance Association.

12.1

11.1, 12.1 Public liability insurance to be effected by the **contractor** for an amount of **R10, 000,000.00** **with** a deductible in an amount as determined by the contractor's insurance company.

11.2, 12.1 Support insurance to be effected by the **contractor** for the sum of **NOT APPLICABLE** with a deductible in an amount that the **contractor** deems appropriate.

3.3, 15.1.3, A waiver of the **contractor's** lien or right of continuing possession is not required.

31.16.2

3.7 Three copies of the construction documents are to be supplied to the **contractor** free of charge.

3.4 JBCC Engineering General Conditions are not to be included in the contract document.

- 31.5.3 CPAP is Not Applicable in this project.
- 31.3 There is no latest day of the month for the issue of an interim payment certificate.
- 14.5 The employer will not provide advanced payments against an advanced payment guarantee.
- 14.2 and 14.4 The **construction guarantee** is to be a fixed guarantee in an amount of 10% of the contract sum and payment reduction
- 40.0 Dispute resolution shall be by adjudication
~~or~~
~~Dispute determinations shall be by arbitration~~

Part 2: Contract Data completed by the Contractor

Clause Item and data

- 1.2 The name of the Contractor is.
- The address of the contractor is:
- Telephone:
- Facsimile:
- Address (physical):
-
-
- Address (postal):
-
-

INDEPENDENT DEVELOPMENT TRUST

C1.3 Construction Guarantee

GUARANTOR DETAILS AND DEFINITIONS

Guarantor means

Physical address
.....

Guarantor's signatory 1 Capacity

Guarantor's signatory 1 Capacity

Employer means **The Independent Development Trust**

Contractor means

Agent means **MY ARCHITECTURE**

Works means **Bid No: DOEEC/06/2023/2024–** Provision of a double Grade R classroom and ablution blocks with playground amenities at Dumile Junior Primary School, Mbizana, Alfred Nzo Local Municipality.

Site means **The designated site to be shown to the contractor is at MAMPELAZWE JUNIOR SECONDARY SCHOOL, LUSIKISIKI (TAWENI), O.R TAMBO DISTRICT, EASTERN CAPE PROVINCE**

Agreement means **the JBCC Series 2000 Principal Agreement Edition 4.1 Code 2101 March 2005**

Contract Sum i.e. the total of prices in the Form of Offer and Acceptance inclusive of VAT

Amount in figures R

Amount in words

(Rand)

Guaranteed Sum means the maximum aggregate amount of R

Amount in words

(Rand)

1 The Guarantor's liability shall be limited to the amount of the Guaranteed Sum as follows:

GUARANTOR'S LIABILITY	PERIOD OF LIABILITY
Maximum Guaranteed Sum (not exceeding 10 % of the contract sum) in the amount of: (Rands) (R)	From and including the date of issue of this Construction Guarantee and up to and including the date of the only practical completion certificate or the last practical completion certificate where there are sections, upon which this Construction Guarantee shall expire.

2 The Guarantor hereby acknowledges that:

2.1 Any reference in this Guarantee to the Agreement is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a surety ship.

2.2 Its obligation under this Guarantee is restricted to the payment of money.

3 Subject to the Guarantor's maximum liability referred to in clauses 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in sub-clauses 3.1 to 3.3:

3.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Principal Agent in an interim or final payment certificate has not been made in terms of the Agreement and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of sub-clause 3.2

3.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) calendar days has elapsed since the first written demand in terms of sub-clause 4.1 and that the sum certified has still not been paid therefore the Employer calls up this Guarantee and demands payment of the sum certified from the Guarantor.

3.3 A copy of the said payment certificate, which entitles the Employer to receive payment in terms of the Agreement of the sum certified in clause 3.

4 Subject to the Guarantor's maximum liability referred to in clause 1, the Guarantor undertakes to pay the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Guarantee stating that:

4.1 The Agreement has been cancelled due to the Contractor's default and that the Guarantee is called up in terms of clause 4. The demand shall enclose a copy of the notice of cancellation; or

4.2 A provisional sequestration or liquidation court order has been granted against the Contractor and that the Guarantee is called up in terms of clause 4. The demand shall enclose a copy of the court order.

5 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of clauses 3 and 4 shall not exceed the Guarantor's maximum liability in terms of clause 1.

6 Where the Guarantor is a registered insurer and has made payment in terms of clause 4, the Employer shall upon the date of issue of the final payment certificate submit an expense account to the Guarantor showing how all monies received in terms of the Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Guarantee shall bear interest at the prime overdraft rate of the

Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.

- 7 Payment by the Guarantor in terms of clause 3 or 4 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 8 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer deems fit and the Guarantor shall not have the right to claim his release from this Guarantee on account of any conduct alleged to be prejudicial to the Guarantor
- 9 The Guarantor chooses the physical address as stated above for all purposes in connection herewith.
- 10 This Guarantee is neither negotiable nor transferable and shall expire in terms of clause 1, or payment in full of the Guaranteed Sum or on the Guarantee expiry date, whichever is the earlier, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired
- 11 This Guarantee, with the required demand notices in terms of clauses 3 or 4, shall be regarded as a liquid document for the purpose of obtaining a court order.
- 12 Where this Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at Date

Guarantor's

Guarantor's

Signatory 1 Signatory 2

Identity number Identity number

Witness 1 Witness 2

Guarantor's seal or stamp

INDEPENDENT DEVELOPMENT TRUST

ADJUDICATOR'S AGREEMENT

This agreement is made on the day of between:
..... (name of company / organisation)
of
..... (address)
and
..... (name of company / organisation)
of
..... (address)
(the Parties) and
..... (name)
of
..... (address)
(the Adjudicator).

Disputes or differences may arise/have arisen* between the Parties under a Contract dated
... and known as

and these disputes or differences shall be/have been* referred to adjudication in accordance with the JBCC 2000 Adjudication Rules, (hereinafter called "the Procedure") and the Adjudicator may be or has been requested to act.

* Delete as necessary

IT IS NOW AGREED as follows:

- 1 The rights and obligations of the Adjudicator and the Parties shall be as set out in the JBCC 2000 Adjudication Rules.
- 2 The Adjudicator hereby accepts the appointment and agrees to conduct the adjudication in accordance with the JBCC 2000 Adjudication Rules..
- 3 The Parties bind themselves jointly and severally to pay the Adjudicator's fees and expenses as set out in the Contract Data.
- 4 The Parties and the Adjudicator shall at all times maintain the confidentiality of the adjudication and shall endeavour to ensure that anyone acting on their behalf or through them will do likewise, save with the consent of the other Parties which consent shall not be unreasonably refused.
- 5 The Adjudicator shall inform the Parties if he intends to destroy the documents which have been sent to him in relation to the adjudication and he shall retain documents for a further period at the request of either Party.

SIGNED by: _____

Name: _____

ID: _____

who warrants that he / she is
duly authorized to sign for and
on behalf of the first Party in
the presence of

SIGNED by: _____

Name: _____

ID: _____

who warrants that he / she is
duly authorized to sign for
and behalf of the second
Party in the presence of

SIGNED by: _____

Name: _____

ID: _____

the Adjudicator in the
presence of

Witness _____

Name: _____

Address: _____

Witness: _____

Name _____

Address: _____

Witness: _____

Name: _____

Address: _____

Date: _____

Date: _____

Date: _____

Contract Data

1	The Adjudicator shall be paid at the hourly rate of R. in respect of all time spent upon, or in connection with, the adjudication including time spent traveling.
2	The Adjudicator shall be reimbursed in respect of all disbursements properly made including, but not restricted to: (a) Printing, reproduction and purchase of documents, drawings, maps, records and photographs. (b) Telegrams, telex, faxes, and telephone calls. (c) Postage and similar delivery charges. (d) Travelling, hotel expenses and other similar disbursements. (e) Room charges. (f) Charges for legal or technical advice obtained in accordance with the Procedure.
3	The Adjudicator shall be paid an appointment fee of R. This fee shall become payable in equal amounts by each Party within 14 days of the appointment of the Adjudicator, subject to an Invoice being provided. This fee will be deducted from the final statement of any sums which shall become payable under item 1 and/or item 2 of the Contract Data. If the final statement is less than the appointment fee the balance shall be refunded to the Parties.
4	The Adjudicator is/is not* currently registered for VAT.
5	Where the Adjudicator is registered for VAT it shall be charged additionally in accordance with the rates current at the date of invoice.
6	All payments, other than the appointment fee (item 3) shall become due 31 days after receipt of invoice,

* Delete as necessary

INDEPENDENT DEVELOPMENT TRUST

C2.1 Pricing Instructions

- 1 The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work (as amended) published and issued by the Association of South African Quantity Surveyors (Sixth Edition (Revised)), 1999. Where applicable the:
 - a) Civil engineering work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardized Specifications for Civil Engineering Works.
 - b) Mechanical work has been drawn up in accordance with the provisions of the Model Bills of Quantities for Refrigeration, Air-Conditioning and Ventilation Installations, published by the South African Association of Quantity Surveyors, July 1990).
 - c) electrical work has been drawn up in accordance with the provisions of the Model Bills of Quantities for Electrical Work, published by the South African Association of Quantity Surveyors, (July, 2005).
- 2 The agreement is based on the JBCC Series 2000 Principal Building Agreement, prepared by the Joint Building Contracts Committee, Edition 4.1, and March 2005. The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variables are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 3 Preliminary and general requirements are based on the various parts of the JBCC Series 2000 Preliminaries as prepared by the Joint Building Contracts Committee, Edition 4.1, and March 2005. The additions, deletions and alterations to the various parts of the JBCC Series 2000 Preliminaries as well as the contract specific variables are as stated in the Specification Data in the Scope of Work. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 4 It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for Bids. (Refer to www.stanza.org.za or www.iso.org for information on standards).
- 5 The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
- 6 The drawings listed in the Scope of Works used for the setting up of these Bills of Quantities are kept by the quantity surveyor and can be viewed at any time during office hours up until the completion of the works.
- 7 Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
- 8 The rates contained in the Bills of Quantities will apply irrespective of the final quantities of the

different classes and kinds of work actually executed.

- 9 Rates for work of similar description occurring in different sections of the Bills of Quantities shall be identical.
- 10 An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
- 11 Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")
- 12 The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminary and General) of the Bills of Quantities
- 13 The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor's risk.
- 14 The amount of the Preliminary and General Section to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminary and General Section and any amount in respect of contract price adjustment provided for in the contract.
- 15 Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in 14 but taking into account the revised period for completing the works.
- 16 The amount or items of the Preliminary and General Section shall be adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bills of Quantities:
 - a) an amount which is not to be varied, namely Fixed (F)
 - b) an amount which is to be varied in proportion to the contract value, namely Value Related (V); and
 - c) an amount which is to be varied in proportion to the contract period as compared to the initial construction period excluding revisions to the construction period for which no adjustment to the contractor is not entitled to in terms of the contract, namely Time Related (T).
- 17 Where no provision is made in the Bills of Quantities to indicate which of the three categories in 12 apply or where no selection is made, the adjustments shall be based on the following breakdown:
 - a) 10 percent is Fixed;
 - b) 15 percent if Value Related
 - c) 75 percent is Time Related.
- 18 The adjustment of the Preliminary and General Section shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminary and General Section shall exclude any contingency sum, the amount for the Preliminary and General Section and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.
- 19 All work is to be constructed using labor-intensive methods. The use of plant to provide such works, other than plant specifically provided for in the scope of works, is a variation order to the

contract

- 20 Payment for items, which are designated to be constructed under labour-intensively, will not be made unless they are constructed using labor-intensive methods. Any unauthorized use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.
- 21 The Bidder is to acquaint himself as to the specific requirements of this Bid as contained in additional clauses A1 to A6 to the JBCC Principal Agreement as incorporated in the Contract Data. These clauses may be priced under the relevant Preliminaries items in SECTION C: SPECIFIC PRELIMINARIES of the Preliminaries Bill. No claim will be entertained due to the failure of the Bidder to allow for these requirements

INDEPENDENT DEVELOPMENT TRUST

C2.2 Bills of Quantities

Item No		Quantity	Amount
	<u>BILL No. 1PRELIMINARIES(CPAP Work Group No 190 Unless Otherwise Stated)</u> <u>MEANING OF TERMS "TENDER / TENDERER"</u> Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder" <u>PRELIMINARIES</u> The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable". <u>PRICING OF PRELIMINARIES</u> Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities. <u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u> <u>DEFINITIONS</u> A1.0 DEFINITIONS AND INTERPRETATION Clause 1.0 Clause 1.1 Definition of "Commencement Date" is added: "COMMENCEMENT DATE" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following: "CONSTRUCTION GUARANTEE" means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule Carried To Trade Summary Bill No. 1 Preliminaries		
		R	

Clause 1.1 Definition of "**Construction Period**" is amended by replacing it with the following:

"**CONSTRUCTION PERIOD**" means the period commencing on the **commencement date** and ending on the date of **practical completion**

Clause 1.1 Definition of "**Corrupt Practice**" is added:

"**CORRUPT PRACTICE**" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

Clause 1.1 Definition of "**Fraudulent Practice**" is added:

"**FRAUDULENT PRACTICE**" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition

Clause 1.1 Definition of "**Interest**" is amended by replacing it with the following:

"**INTEREST**" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No.1 of 1999).

Clause 1.1 Definition of "**Principal Agent**" is amended by replacing it with the following:

"**PRINCIPAL AGENT**" means the person or entity appointed by the **employer** and named in the **schedule**. In the event of a **principal agent** not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by a representative of the **employer** as named in the **schedule**

Clause 1.1 Definition of "**Security**" is amended by replacing it with the following:

"**SECURITY**" means the form of security provided by the **employer** or **contractor**, as stated in the **schedule**, from which the **contractor** or **employer** may recover expense or loss

Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"

Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed: _____ Value related: _____ Time related: _____

Item

Carried To Trade Summary

R

Bill No. 1
Preliminaries

	<u>OBJECTIVE AND PREPARATION</u>	
1	A2.0 OFFER, ACCEPTANCE AND PERFORMANCE Clause 2.0 Fixed:_____ Value related:_____ Time related:_____	Item
2	A3.0 DOCUMENTS Clause 3.0 Clause 3.2.1 is amended by replacing "14.1" with "14.0" Clause 3.7 is amended by the addition of the following: The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site , to which the employer , principal agent and agents shall have access at all times Clause 3.10 is amended by replacing the second reference to " principal agent " with the word " employer " Fixed:_____ Value related:_____ Time related:_____	Item
3	A4.0 DESIGN RESPONSIBILITY Clause 4.0 Clause 4.3 is amended by replacing it with the following: No clause Fixed:_____ Value related:_____ Time related:_____	Item
4	A5.0 EMPLOYER'S AGENTS Clause 5.0 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8 Fixed:_____ Value related:_____ Time related:_____	Item
5	A6.0 SITE REPRESENTATIVE Clause 6.0 Fixed:_____ Value related:_____ Time related:_____	Item
	Carried To Trade Summary	R
	Bill No. 1 Preliminaries	

1	A7.0 COMPLIANCE WITH REGULATIONS Clause 7.0 Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification Fixed:_____ Value related:_____ Time related:_____	Item	
2	A8.0 WORKS RISK Clause 8.0 Fixed:_____ Value related:_____ Time related:_____	Item	
3	A9.0 INDEMNITIES Clause 9.0 Fixed:_____ Value related:_____ Time related:_____	Item	
4	A10.0 WORKS INSURANCES Clause 10.0 Clause 10.0 is amended by the addition of the following clauses: 10.5 Damage to the Works (a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary (b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works (c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6 (d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof		
	Carried To Trade Summary	R	
	Bill No. 1 Preliminaries		

10.6 Injury to Persons or loss of or damage to Properties

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**
- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequately insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

Carried To Trade Summary

Bill No. 1
Preliminaries

R

10.7.1 Damage to the works

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

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

10.7.2 Injury to persons or loss of or damage to property

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

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

10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the **commencement date** but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so

10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

Fixed: _____ Value related: _____ Time related: _____

1 A11.0 LIABILITY INSURANCES

Clause 11.0

Fixed: _____ Value related: _____ Time related: _____

Carried To Trade Summary

Bill No. 1
Preliminaries

Item

Item

R

1	A12.0 EFFECTING INSURANCES Clause 12.0 Fixed:_____ Value related:_____ Time related:_____	Item	
2	A13.0 No clause		
3	A14.0 SECURITY Clause 14.0 Clauses 14.1 - 14.8 are amended by replacing them with the following: 14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) 14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor 14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected. 14.3 Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected: 14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date 14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor 14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor		
	Carried To Trade Summary	R	
	Bill No. 1 Preliminaries		

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**

14.3.5 The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**

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

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

14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

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

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

14.4.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable **construction guarantee**

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

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

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

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

14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8 (A) and 34.8

14.5.5 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed **construction guarantee** or may recover from the payment reduction or may do both

Carried To Trade Summary

Bill No. 1
Preliminaries

R

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

14.6.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.6.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**

14.6.3 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

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

14.7.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B)

14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**

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

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable

Fixed: _____ Value related: _____ Time related: _____

Item

Carried To Trade Summary

R

Bill No. 1
Preliminaries

<u>EXECUTION</u>			
1	A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS Clause 15.0 Clause 15.1.1 is amended by replacing it with: No Clause Clause 15.1.2 is amended by replacing it with: The security selected in terms of 14.0 Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date Clause 15.2.1 is amended by replacing it with the following clause: Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4 Fixed:_____ Value related:_____ Time related:_____	Item	
2	A16.0 ACCESS TO THE WORKS Clause 16.0 Fixed:_____ Value related:_____ Time related:_____	Item	
3	A17.0 CONTRACT INSTRUCTIONS Clause 17.0 Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors " Fixed:_____ Value related:_____ Time related:_____	Item	
4	A18.0 SETTING OUT OF THE WORKS Clause 18.0 Fixed:_____ Value related:_____ Time related:_____	Item	
		R	
Carried To Trade Summary			
Bill No. 1 Preliminaries			

1	A19.0 ASSIGNMENT Clause 19.0 Fixed:_____ Value related:_____ Time related:_____	Item	
2	A20.0 NOMINATED SUB-CONTRACTORS Clause 20.0 Clause 20.1.3 is amended by replacing it with the following: No Clause Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums Fixed:_____ Value related:_____ Time related:_____	Item	
3	A21.0 SELECTED SUBCONTRACTORS Clause 21.0 Clause 21 is amended by replacing it with: No Clause Fixed:_____ Value related:_____ Time related:_____	Item	
4	A22.0 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0 Fixed:_____ Value related:_____ Time related:_____	Item	
5	A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.0 Fixed:_____ Value related:_____ Time related:_____ <u>COMPLETION</u>	Item	
6	A24.0 PRACTICAL COMPLETION Clause 24.0 Fixed:_____ Value related:_____ Time related:_____	Item	
Carried To Trade Summary		R	
Bill No. 1 Preliminaries			

1	A25.0 WORKS COMPLETION Clause 25.0 Fixed:_____ Value related:_____ Time related:_____	Item	
2	A26.0 FINAL COMPLETION Clause 26.0 Clause 26.1.2 is amended by inserting "#" next to 26.1.2 Fixed:_____ Value related:_____ Time related:_____	Item	
3	A27.0 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed:_____ Value related:_____ Time related:_____	Item	
4	A28.0 SECTIONAL COMPLETION Clause 28.0 Fixed:_____ Value related:_____ Time related:_____	Item	
5	A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0 Clause 29.2.5 is amended by replacing it with: No clause Fixed:_____ Value related:_____ Time related:_____	Item	
6	A30.0 PENALTY FOR NON-COMPLETION Clause 30.0 Fixed:_____ Value related:_____ Time related:_____	Item	
	Carried To Trade Summary	R	
	Bill No. 1 Preliminaries		

PAYMENT

1 A31.0 INTERIM PAYMENT TO THE CONTRACTOR

Clause 31.0

Clause 31.4 is amended by addition of the following clause:

31.4.4 Payment for the labour-intensive component of the works

Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"

Clause 31.8 as amended by replacing it with the following two alternative clauses:

Alternative A

31.8(A) Where a **security** is selected in terms of 14.1; 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(A).1 Ninety-five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Carried To Trade Summary

Bill No. 1
Preliminaries

R

Alternative B

31.8(B) Where **security** is a payment reduction in terms of 14.7 has been selected, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(B).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Clause 31.12 is amended by deleting the following:

Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due

Fixed:_____ Value related:_____ Time related:_____

Item

1 A32.0 ADJUSTMENT TO THE CONTRACT VALUE

Clause 32.0

Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:

"due to no fault of the **contractor**"

Fixed:_____ Value related:_____ Time related:_____

Item

2 A33.0 RECOVERY OF EXPENSE AND LOSS

Clause 33.0

Fixed:_____ Value related:_____ Time related:_____

Carried To Trade Summary

R

Bill No. 1
Preliminaries

1	A34.0 FINAL ACCOUNT AND FINAL PAYMENT Clause 34.0 Clause 34.1 is amended by removing "#" next to 34.1 Clause 34.2 is amended by inserting "#" next to 34.2 Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1" Clause 34.10 is amended by replacing "twenty-one (21) calendar days" with "thirty (30) calendar days" Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due" Fixed:_____ Value related:_____ Time related:_____	Item
2	A35.0 PAYMENT TO OTHER PARTIES Clause 35.0 Fixed:_____ Value related:_____ Time related:_____	Item
Carried To Trade Summary		R
Bill No. 1 Preliminaries		

CANCELLATION

1 A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT

Clause 36.0

Clause 36.1 is amended by the addition of the following clauses:

36.1.3 refuses or neglects to comply strictly with any of the conditions of contract

36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

36.1.5 in the judgement of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract

Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "**principal agent**" with "**employer**"

Clause 36.0 is amended by the addition of the following clause:

36.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: _____ Time related: _____

2 A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE

Clause 37.0

Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"

Clause 37.0 is amended by the addition of the following clause:

37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: _____ Time related: _____

Item

Carried To Trade Summary

R

Bill No. 1
Preliminaries

1	A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT Clause 38.0 Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)" Clause 38.0 is amended by the addition of the following clause: 38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever Fixed:_____ Value related:_____ Time related:_____	Item	
2	A39.0 CANCELLATION - CESSATION OF THE WORKS Clause 39.0 Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one-hundred and twenty (120) working days of completion of such a report" Fixed:_____ Value related:_____ Time related:_____ <u>DISPUTE</u>	Item	
3	A40.0 DISPUTE SETTLEMENT Clause 40.0 Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years" Clause 40.6 is amended by removing the reference to: No clause Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following: Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs Fixed:_____ Value related:_____ Time related:_____	Item	
	Carried To Trade Summary	R	
	Bill No. 1 Preliminaries		

SUBSTITUTE PROVISIONS

1 **A41.0 STATE CLAUSES**

Clause 41.0

Fixed:_____ Value related:_____ Time related:_____

Item

CONTRACT VARIABLES

THE SCHEDULE (C1.2 CONTRACT DATA)

2 **A42.0 PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract

Fixed:_____ Value related:_____ Time related:_____

Item

Carried To Trade Summary

R

Bill No. 1
Preliminaries

SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

1 B1.1 *Definitions and interpretation*

See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS

2 B2.1 *Checking of documents*

Fixed: _____ Value related: _____ Time related: _____

Item

3 B2.2 *Provisional bills of quantities*

Fixed: _____ Value related: _____ Time related: _____

Item

4 B2.3 *Availability of construction documentation*

Fixed: _____ Value related: _____ Time related: _____

Item

5 B2.4 *Interests of agents*

Fixed: _____ Value related: _____ Time related: _____

Item

6 B2.5 *Priced documents*

Fixed: _____ Value related: _____ Time related: _____

Item

7 B2.6 *Tender submission*

Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance"

Fixed: _____ Value related: _____ Time related: _____

Item

B3.0 THE SITE

8 B3.1 *Defined works area*

Fixed: _____ Value related: _____ Time related: _____

Item

9 B3.2 *Geotechnical investigation*

Fixed: _____ Value related: _____ Time related: _____

Item

Carried To Trade Summary

R

Bill No. 1
Preliminaries

[illegible]

1	B4.4 <i>Technical meetings</i> Fixed: _____ Value related: _____ Time related: _____	Item
2	B4.5 <i>Labour and plant records</i> Fixed: _____ Value related: _____ Time related: _____	Item
	B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS	
3	B5.1 <i>Samples of materials</i> Fixed: _____ Value related: _____ Time related: _____	Item
4	B5.2 <i>Workmanship samples</i> Fixed: _____ Value related: _____ Time related: _____	Item
5	B5.3 <i>Shop drawings</i> Fixed: _____ Value related: _____ Time related: _____	Item
6	B5.4 <i>Compliance with manufacturers' instructions</i> Fixed: _____ Value related: _____ Time related: _____	Item
	B6.0 TEMPORARY WORKS AND PLANT	
7	B6.1 <i>Deposits and fees</i> Fixed: _____ Value related: _____ Time related: _____	Item
8	B6.2 <i>Enclosure of the works</i> Fixed: _____ Value related: _____ Time related: _____	Item
9	B6.3 <i>Advertising</i> Fixed: _____ Value related: _____ Time related: _____	Item
10	B6.4 <i>Plant, equipment, sheds and offices</i> Fixed: _____ Value related: _____ Time related: _____	Item
11	B6.5 <i>Main notice board</i> Fixed: _____ Value related: _____ Time related: _____	Item
Carried To Trade Summary		R
Bill No. 1 Preliminaries		

[illegible]

[illegible]

1	B11.8 <i>Vermis</i> Fixed: _____ Value related: _____ Time related: _____	Item
2	B11.9 <i>Overhand work</i> Fixed: _____ Value related: _____ Time related: _____	Item
3	B11.10 <i>Instruction manuals and guarantees</i> Fixed: _____ Value related: _____ Time related: _____	Item
4	B11.11 <i>As built information</i> Fixed: _____ Value related: _____ Time related: _____	Item
5	B11.12 <i>Tenant installations</i> Fixed: _____ Value related: _____ Time related: _____	Item
	B12.0 SCHEDULE OF VARIABLES	
6	B12.1 <i>Schedule of variables</i> Fixed: _____ Value related: _____ Time related: _____	Item
	This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries .	
	Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule . Key cross reference clauses are italicised in [] brackets	
	12.1 PRE-TENDER INFORMATION 12.1.1 <i>Provisional Bills of Quantities</i> [2.2] <i>The quantities are provisional</i>	YES
	12.1.2 <i>Availability of construction documentation</i> [2.3] <i>Construction documentation is complete</i>	YES
	12.1.3 <i>Interest of agents</i> [2.4] Details:	NIL
	Carried To Trade Summary	R
	Bill No. 1 Preliminaries	

12.1.4 [3.1]	Defined works area Details: <i>The work area will be pointed out by the principal agent to the contractor who will sign written acknowledgement therefore before commencing operations.</i>		
12.1.5 [3.2]	Geotechnical investigation Details: <i>No trail holes, soils investigation, etc have been carried out.</i>		
12.1.6 [3.4]	Existing premises occupied Specific requirements: <i>The premises will be in use and occupied during the course of this contract. The contractor shall execute the works in such a manner as will least interfere with the general routine of the occupants of the premises and shall minimise any nuisance from dust, noise or other causes. The contractor will only be allowed to work in agreed areas of the site.</i>		
12.1.7 [3.5]	Previous work - dimensional accuracy Details:	N/A	
12.1.8 [3.6]	Previous work - defects Details:	N/A	
12.1.9. [3.7]	Services - known Details: <i>Should the contractor encounter any existing services such as underground cables, pipes or sewer during the execution of the works he shall notify the principal agent immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the principal agent.</i>		
12.1.10 [3.9]	Protection of trees Specific requirements: <i>Only those trees and shrubs indicated as such on the drawings shall be removed or cut down. The remainder of the trees and shrubs shall be left undamaged.</i>		
12.1.11 [3.11]	Inspection of adjoining properties Specific requirements:	N/A	
12.1.12 [6.2]	Enclosure of the works Specific requirements: <i>The contractor shall enclose the areas of work and mark areas with danger tape.</i>		
Carried To Trade Summary		R	
Bill No. 1 Preliminaries			

12.1.13	Offices			
[6.4.3]	Specific requirements: <i>The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.</i>			
12.1.14	Main notice board			
[6.5]	Specific requirements: <i>The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board as per EPWP requirements.</i>			
12.1.15	Subcontractors' notice board			
[6.6]	A notice board is required	NO		
	Specific requirements:			
12.1.16	Water			
[7.2]	Option A (by contractor)	YES		
	Option B (by employer - free of charge)	NO		
	Option C (by employer - metered)	NO		
12.1.17	Electricity			
[7.3]	Option A (by contractor)	YES		
	Option B (by employer - free of charge)	NO		
	Option C (by employer - metered)	NO		
12.1.18	Telecommunications			
[7.4]	Telephone	YES		
	Facsimile	YES		
	E-mail	NO		
12.1.19	Ablution facilities			
[7.5]	Option A (by contractor)	YES		
	Option B (by employer)	NO		
Carried To Trade Summary			R	
Bill No. 1				
Preliminaries				

12.1.20	Protection of existing/sectionally occupied works			
[11.2]	Protection is required	NO		
12.1.21	Special attendance			
[9.2]	Subcontractor (1) details:			
	Subcontractor (2) details:			
	Subcontractor (3) details:			
	Subcontractor (4) details:			
12.1.22	Protection of works			
[11.1]	Specific requirements:	N/A		
12.1.23	Disturbance			
[11.5]	Specific requirements: <i>The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent</i>			
12.1.24	Environmental disturbance			
[11.6]	Specific requirements:	NONE		
12.2	POST-TENDER INFORMATION			
12.2.1	Payment of preliminaries			
[10.2]	Option A (prorated)	YES/NO		
	Option B (calculated)	YES/NO		
12.2.2	Adjustment of preliminaries			
[10.3]	Option A (three categories)	YES/NO		
	Option B (detailed breakdown)	YES/NO		
12.2.3	Additional agreed preliminaries items			
	Details:			
		Carried To Trade Summary	R	
Bill No. 1 Preliminaries				

SECTION C: SPECIFIC PRELIMINARIES

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

1 C1 CONTRACT DRAWINGS

Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a **bills of quantities** or **lump sum document**

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

A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 C2 GENERAL PREAMBLES

The document "Construction Works: Specification: General Specification (PW371-A) Edition 2.0" is obtainable on the Department's website (<http://www.publicworks.gov.za/> under "Consultants Guidelines"), and shall be read in conjunction with the **bills of quantities / lump sum document** and be referred to for the full descriptions of work to be done and materials to be used

The document "Construction Works: Specification: Particular Specification (PW371-B) Edition 2.0" is issued together with the drawings and shall be read in conjunction with the drawings and the **bills of quantities / lump sum document**

Fixed: _____ Value related: _____ Time related: _____

Item

3 C3 TRADE NAMES

Wherever a trade name for any product has been described in the **bills of quantities / lump sum documents**, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

Fixed: _____ Value related: _____ Time related: _____

Item

Carried To Trade Summary

R

Bill No. 1
Preliminaries

1	C4 IMPORTED MATERIALS AND EQUIPMENT Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment T2.20 to be completed by tenderer) Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable) Fixed: _____ Value related: _____ Time related: _____	Item
2	C5 HIV/AIDS AWARENESS It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment	
3	C5.1 AWARENESS CHAMPION Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification Fixed: _____ Value related: _____ Time related: _____	Item
	C5.2 AWARENESS WORKSHOPS Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification Fixed: _____ Value related: _____ Time related: _____	Item
	Carried To Trade Summary	R
	Bill No. 1 Preliminaries	

1	C5.3 POSTERS, BOOKLETS, VIDEOS, ETC. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____	Item	
2	C5.4 ACCESS TO CONDOMS Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____	Item	
3	C5.5 MONITORING Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____ C6 OCCUPATIONAL HEALTH AND SAFETY ACT The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment. Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under Bill No. 2. Fixed:_____ Value related:_____ Time related:_____	Item	
4	C7 LOCAL LABOUR AND LOCAL BUILDING MATERIALS		
	Carried To Trade Summary	R	
	Bill No. 1 Preliminaries		

1	C7.1 LOCAL LABOUR It is a condition of this tender that only persons normally resident in the locality of the works (local labour) may be employed on the contract. Provided, however, that should adequate and appropriate labour not be available within the locality, other labour may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ labour from the immediate locality. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The Contractor shall endeavour to ensure that the expenditure on the employment of temporary workers is in the following proportion: (a) 55% women (b) 55% youth who are between the ages of 18 and 35; and (c) at least one person with a disability The minimum rate of pay set for the employment of temporary workers is R130.00 per task or per day. Fixed:_____ Value related:_____ Time related:_____		
2	C7.2 IMPLEMENTATION OF LABOUR-INTENSIVE INFRASTRUCTURE PROJECTS UNDER THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) The contractor shall comply with all the requirements of the "code of Good Practice for Employment and Conditions of Employment for Special public Works Programmes" issued in terms of the "Basic Conditions of Employment Act, 1997 (Act No 75 of 1997)" and the related "Ministerial Determination", for the employment of locally employed temporary workers on a labour-intensive infrastructure project under the Expanded Public Works Programme (EPWP) The Contractor's attention is drawn to the Labour-Intensive Methods and Requirements incorporated in the tender documents.(C3.1) The contractor shall provide to all EPWP workers protective clothing as per the EPWP requirements. (Clothing to be orange with EPWP (30 centimetres) letters on the back and company logo on the heart pocket). The contractor shall maintain daily records with regard to the workers employed and shall, on a monthly basis, submit a report to the principal agent in the prescribed format. Compulsory indicators such as the project budget, actual project expenditure, number of job opportunities created, demographic characteristics of workers employed, minimum daily wage rate, number of person-days of employment created and number of training person-days, shall be included in said report, all as defined in the "Guide for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)" Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirement in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained Fixed:_____ Value related:_____ Time related:_____	Item	
	Carried To Trade Summary	R	
	Bill No. 1 Preliminaries		

1	C7.3 REPORTING BY CONTRACTOR The contractor is required to complete the attached Contractors Monthly Report which is to be submitted together with the contractors payment claim. Payment of the contractor is conditional on this information being accurate and timeously provided. In addition to the contractors report the contrator must take note of the following: (a) Each beneficiary must sign an EPWP contract, which will be provided by the EPWP Champion and be kept on the project file. (b) When contractors recruit local labourers, they must produce a 13 digit Identity document and a certified copy of the ID must be forwarded to the DRPW Regional EPWP representative. (c) A daily attendance register should be kept. (d) Each beneficiary must sign the payment sheet, as proof that they have been paid. (e) At the bottom of the contractors report, the site agent or CLO or contractor must sign the document as proof that the people indicated have worked the number of days. Fixed:_____ Value related:_____ Time related:_____	Item
2	C7.4 LOCAL BUILDING MATERIALS Preference shall be given to the supply of materials produced or manufactured in the Eastern Cape Province provided that: (a) Such materials comply in all respects with the specific requirements of PW371 specification. (b) The availability of such materials shall not adversely affect the desired progress of the specific works. (c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof Fixed:_____ Value related:_____ Time related:_____	Item
	Carried To Trade Summary	R
	Bill No. 1 Preliminaries	

CONSTRUCTION OF NEW ECDC AT MAMPELAZWE JSS
PROJECT NO.: DOEEC/12/2023/2024

[illegible]

CONSTRUCTION OF NEW ECDC AT MAMPELAZWE JSS
PROJECT NO.: DOEEC/12/2023/2024

[illegible]

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 3FOUNDATIONS (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Standard Preambles and the Notes in the various trade bills are to apply equally to this section.			
<u>Nature Of Ground</u>			
The nature of the ground is unknown and the contractor is to make his own assessment and due allowance for same.			
<u>Quantities</u>			
The quantities of excavations and concrete shall be the net sizes to be formed in accordance with the drawings and specifications and shall be not less than the horizontal area of the bottom of the relevant structures multiplied by the average depth or thickness.			
<u>Working Space</u>			
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.			
Carried To Trade Summary			R
Bill No. 2 Foundations (Provisional)			

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

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

Imported fill:

Filling and bedding to trenches etc. to be in compliance with SANS 1200 DB and LB respectively

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.

Formwork

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.

EARTHWORKS(CPAP Work Group No 104 Unless Otherwise Stated)

EXCAVATIONS, FILLING, ETC

Excavation In Earth Not Exceeding 2m Deep For

1	Reducing levels under floors.	m3	24
2	Pit toilet.	m3	38

Carried To Trade Summary

Bill No. 2
Foundations (Provisional)

R

1	Surface trenches.	m3	24		
2	Foundation beam.	m3	22		
3	Column bases.	m3	8		
<u>Back Excavation Of Vertical Sides Of Excavation In Earth For Working Space Including Backfilling And Compacting To 93% Mod. AASHTO Density</u>					
4	Exceeding 500mm and not exceeding 1500mm deep to side of ground beam for the erection and removal of formwork 500mm from face of excavation (at Contractor's discretion).	m2	107		
5	Extra over ditto for excavation in soft rock.	m2	11		
6	Ditto, but for excavation in hard rock.	m2	5		
<u>Extra Over Trench And Hole Excavations In Earth For Excavation In</u>					
7	Soft rock.	m3	9		
8	Hard rock.	m3	10		
<u>Extra Over All Excavations For Carting Away Of</u>					
9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	68		
<u>Risk Of Collapse Of Excavations To</u>					
10	Sides of trench and base excavations not exceeding 1500mm deep.	m2	214		
11	Sides of trench and base excavations exceeding 1500mm deep.	m2	36		
<u>Keeping Excavations Free Of Water</u>					
12	Allow for keeping excavations free from water.		Item		
<u>Earth Filling Selected By The Contractor From The Excavated Material, Deposited In Layers Not Exceeding 150mm Thick, Watered And Consolidated In</u>					
13	Backfilling to trenches, bases, etc.	m3	24		
Carried To Trade Summary				R	
Bill No. 2 Foundations (Provisional)					

<u>Earth Filling Selected And Supplied By The Contractor, Deposited In Layers Not Exceeding 150mm Thick, Watered And Consolidated In</u>		
1	G7 earth filling to 98% modified AASHTO density under floors, etc. including compaction density tests.	m3 29
<u>Coarse River Sand Filling Supplied By The Contractor In</u>		
2	50mm Thick blinding layer under floors, etc.	m3 9
3	Selected and supplied by the Contractor, treated and disinfected and deposited in play sandpit.	m3 3
<u>Scarify, Mix And Consolidate Top 150mm Of Subgrade</u>		
4	Under floors to 98% modified AASHTO density.	m2 185
<u>Prescribed Density Tests As Check On Contractors Tests Included In Filling Above</u>		
5	Modified AASHTO density test and deliver the results to the Architect within 24 hours of the tests being completed.	No 3
<u>Termite Proofing Treatment Of Chlordane Or Aldrin Type To</u>		
6	Surfaces of ground under floors, etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming.	m2 150
7	Bottoms and sides of trenches, bases, etc.	m2 287
<u>(End Of CPAP Work Group No. 104)</u>		
<u>CONCRETE(CPAP Work Group No. 110 Unless Otherwise Stated)</u>		
<u>Reinforced Cement Concrete (20MPa) In</u>		
8	Filling to cavity of hollow brick wall.	m3 2
9	Filling to cavity of hollow brick piers.	m3 3
10	Filling to precast concrete pipe.	m3 2
<u>Reinforced Cement Concrete (30MPa) In</u>		
11	Columns.	m3 1
Carried To Trade Summary		
Bill No. 2		
Foundations (Provisional)		

CONCRETE CAST AGAINST EXCAVATED SURFACES

Cement Concrete (10MPa) In

1 Blinding under bases and foundation beams.

m3

4

Reinforced Cement Concrete (30MPa) In

2 Footings.

m3

6

3 Raft slab and beams.

m3

51

4 Column bases.

m3

4

5 Base to pit toilet.

m3

4

CONCRETE SUNDRIES

6 750mm Diameter precast concrete pipe section 1000mm long set vertically in excavation and filled with concrete (elsewhere measured).

No

3

(End Of CPAP Work Group No. 110)

FORMWORK(CPAP Work Group No. 111 Unless Otherwise Stated)

Rough Formwork To

7 Sides of foundation beams.

m2

144

8 Sides of square or rectangular columns.

m2

10

9 Edges, risers, ends and reveals not exceeding 300mm high or wide.

m

48

10 Side of toe to raft slab beam not exceeding 300mm high.

m

57

Boxing In Rough Formwork To Form

11 30 x 30mm Horizontal chamfer along top edge of stub column.

m

10

(End Of CPAP Work Group No. 111)

BRICKWORK(CPAP Work Group No. 116 Unless Otherwise Stated)

Carried To Trade Summary

R

Bill No. 2
Foundations (Provisional)

Brickwork of NFX bricks (14 MPa Nominal Compressive Strength) In Class II Mortar

1	Half brick wall.	m2	11
2	Half brick lining to concrete and grouting up solid.	m2	25
3	One brick wall.	m2	13
4	Ditto, but circular on plan.	m2	9
5	330mm Cavity wall in two half brick thicknesses including wire ties.	m2	41

Brickwork Sundries

6	Bag down face of brickwork with 4.1 cement slurry.	m2	29
7	One heavy coat of bituminous emulsion on bagged walls.	m2	29
8	Precast concrete lintol 100mm wide x 75mm deep in lengths not exceeding 3000mm.	m	10
9	Joint not exceeding 300mm high or wide formed of one layer 10mm thick softboard set between vertical concrete or brick surfaces.	m	6

2.5mm Galvanised Brick Reinforcement

10	Galvanised brick reinforcement 80mm wide.	m	497
11	Ditto, but 155mm wide.	m	252
12	Ditto, but 235mm wide.	m	482

FACE BRICKWORK

"Corobrick Golden Wheat Travertine" Or Other Equal Approved Face Bricks Pointed With Ruled-In Vertical And Horizontal Joints

13	Extra over brickwork for face brickwork.	m2	27
14	Extra over brickwork for brick-on-edge coping to edge of raft slabs including pointing to top and one edge.	m	28
15	Extra over brickwork for brick-on-edge coping to top of one brick wall including pointing to top and both edges	m	4
16	Ditto circular on plan.	m	9

Carried To Trade Summary

Bill No. 2
Foundations (Provisional)

R

<u>(End Of CPAP Work Group No. 116)</u>					
<u>WATERPROOFING(CPAP Work Group No. 120 Unless Otherwise Stated)</u>					
<u>JOINT SEALANTS</u>					
<u>Clean, Prime, Caulk, Tool And Smooth With A Elastomeric, One Part, Moisture Cured, Thixotropic Polyurethane Based Adhesive And Sealant Applied With A Pressure Caulking Gun</u>					
1	10 x 15mm Deep in joint on vertical surfaces of brickwork or concrete including raking out expansion joint filler.	m	6		
<u>(End Of CPAP Work Group No. 120)</u>					
<u>PLASTERING(CPAP Work Group No. 142 Unless Otherwise Stated)</u>					
<u>EXTERNAL PLASTER</u>					
<u>4:1 Cement Plaster On Brickwork On</u>					
2	Walls.	m2	11		
3	Walls, circular on plan.	m2	6		
<u>(End Of CPAP Work Group No. 142)</u>					
<u>SUB-SOIL DRAINAGE</u>					
<u>(CPAP Work Group No. 146 Unless Otherwise Stated)</u>					
4	110mm PVC slotted core drain laid in and including trench not exceeding 1000mm deep, risk of collapse of sides, 19mm crushed stone encasing size 300 x 300mm, non-woven continuous filament needle punched polyester geotextil filter blanket wrapped around stone encasing with 150mm side and 300mm end laps, backfilling, etc.	m	75		
5	Extra for 110mm bend.	No	8		
6	Extra for 110mm junction.	No	1		
7	Geocomposite fin drain comprising filter jacket HDPE drainage core enclosed in nonwoven continuous filament needle-punched polyester geotextile with 150mm end laps, including securing against brick wall, backfilling and compacting with excavated material.	m2	29		
Carried To Trade Summary				R	
Bill No. 2					
Foundations (Provisional)					

(End Of CPAP Work Group No. 146)

PAINTWORK(CPAP Work Group No. 152 Unless Otherwise Stated)

PAINT ON PLASTER, FIBRE REINFORCED CEMENT, ETC

Prepare And One Coat Primer And Two Coats External Quality PVA Emulsion On

1

Plastered walls.

m2

17

(End Of CPAP Work Group No. 152)

Carried To Trade Summary

Bill No. 2
Foundations (Provisional)

R

Bill No. 2

Foundations (Provisional)

Trade Summary

Total Brought Forward From Page No.

Page
No

Amount

35
36
37
38
39
40
41
42

Carried To Final Summary

R

Bill No. 2
Foundations (Provisional)

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 4CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Cost Of Tests</u>			
The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SANS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)			
Should the strength required for the concrete in any portion of the structure not be attained in the test cubes, or should any concrete whatsoever be defective the portion in question is to be demolished and replaced at the expense of the Contractor.			
<u>Reinforced Concrete</u>			
All reinforced concrete is to be compacted with a mechanical vibrator.			
Carried To Trade Summary			R
Bill No. 3 Concrete, Formwork & Reinforcement			

Formwork

Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

All formwork shall include for propping to not exceeding 3500mm high unless otherwise described.

Formwork to sides of walls and columns shall be to walls and columns not exceeding 3500mm high unless otherwise described.

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

CONCRETE(CPAP Work Group No. 110 Unless Otherwise Stated)

CONCRETE

Reinforced Cement Concrete (30MPa) In

1	Surface beds on waterproof sheeting.	m3	3
2	Slabs.	m3	2
3	Isolated vanity slabs, cupboard slabs, cover slabs, etc.	m3	0.1
4	Isolated beams.	m3	1
5	Columns.	m3	0.1
6	Slab over pit toilet.	m3	2

TEST BLOCKS

7	Set of three concrete test cubes size 150 x 150 x 150mm overall including testing (Provisional).	Sets	9
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Carried To Trade Summary

Bill No. 3
Concrete, Formwork & Reinforcement

R

CONCRETE SUNDRIES

1	High density 32-36kg/m3 rigid extruded polystyrene 100% closed cell insulation board of 30mm thickness and 600mm width with tongue and groove joints laid on plastic sheeting (elsewhere measured) under raft beams laid in strict accordance with manufacturers instructions.	m2	57
2	Ditto, but under raft slab.	m2	107
3	Float top of concrete with a wood float and finish with a brushed non-skid surface whilst concrete is still green with the addition of 2.1 sand and cement as necessary.	m2	0.2
4	Float top of concrete, to falls, with a wood float and finish with a brushed non-skid surface whilst concrete is still green with the addition of 2.1 sand and cement as necessary.	m2	84
5	Float top of concrete, to falls to centre outlet, with a steel float.	m2	1
6	30mm Thick non-shrink grout under base plates size 300 x 300mm including chamfered edge all around.	No	8
7	Take delivery of set of four holding down bolts and cast into exact position in top of column or base including template, etc.	No	8
8	2950 x 2950 x 12mm Deep sinking in top of concrete to receive mat surround including necessary formwork.	No	1
9	450 x 600mm Polymer type 9D manhole cover and frame bedded on top of concrete cover slab.	No	4
10	Besaans du-Plessis or other equal approved manhole locking bar as code 6600 with ends cast into top of concrete slab.	No	4
11	1,6 x 30mm Galvanised hoop iron tie 400mm long with both ends bolted to top of concrete column.	No	1
12	M16 x 100mm long grade 4.8 bolt with nut and washers bolted into top of concrete column.	No	2

(End Of CPAP Work Group No. 110)

FORMWORK (CPAP Work Group No. 111 Unless Otherwise Stated)

Carried To Trade Summary

Bill No. 3
Concrete, Formwork & Reinforcement

R

<u>Rough Formwork To</u>				
1	Soffit of slabs.	m2	14	
2	Sides and soffits of beams.	m2	7	
3	Sides of square or rectangular columns.	m2	0.4	
4	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	42	
5	Sides, reveals, etc. of opening 160mm diameter through 200mm thick slab.	No	4	
6	Sides, reveals, etc. of opening 250mm diameter through 200mm thick slab.	No	4	
7	Sides, reveals, etc. of opening 450 x 600mm rebated opening through 200mm thick slab for manhole cover and frame.	No	4	
<u>Boxing In Rough Formwork To Form</u>				
8	20 x 20mm Rebate along horizontal or sloping bottom edge of walls, beams, etc.	m	11	
9	20 x 20mm Rebate along horizontal or sloping top edge of walls, beams, etc.	m	11	
10	20 x 20mm Drip groove along horizontal bottom edge of slab.	m	11	
<u>Formwork Left In To</u>				
11	Soffit of slabs and remove props through small opening.	m2	9	
<u>MOVEMENT JOINTS, ETC</u>				
<u>Bitumen Impregnated Softboard Expansion Joints</u>				
12	Joint not exceeding 300mm high or wide formed of one layer 10mm thick set between vertical concrete or brick surfaces.	m	29	
<u>Slip Joints</u>				
13	Joint not exceeding 300mm wide formed of two layers 375 micron DPC with graphite grease between, on and including bed of 3.1 cement mortar, on brick walls as bearing under concrete slabs, beams, etc.	m	10	
<u>(End Of CPAP Work Group No. 111)</u>				
Carried To Trade Summary				
Bill No. 3 Concrete, Formwork & Reinforcement				

REINFORCEMENT (PROVISIONAL)(CPAP Work Group No. 114 Unless Otherwise Stated)

Mild Steel Bar Reinforcement To Structural Concrete Work

1	8mm Diameter bars.	kg	68
2	10mm Diameter bars.	kg	127

High Tensile Steel Bar Reinforcement To Structural Concrete Work

3	8mm Diameter bars.	kg	139
4	10mm Diameter bars.	kg	1 601
5	12mm Diameter bars.	kg	1 242
6	16mm Diameter bars.	kg	955
7	20mm Diameter bars.	kg	681
8	25mm Diameter bars.	kg	272
9	32mm Diameter bars.	kg	136

Fabric Reinforcement To Concrete Work

10	High tensile steel mesh Ref. 193 to concrete surface beds, slabs, etc.	m2	262
11	High tensile steel mesh Ref. 245 set vertically in concrete filled cavity of hollow wall.	m2	15

(End Of CPAP Work Group No. 114)

Carried To Trade Summary

Bill No. 3
Concrete, Formwork & Reinforcement

R

Bill No. 3

Concrete, Formwork & Reinforcement

Trade Summary

Total Brought Forward From Page No.

Page
No

44

45

46

47

48

Amount

Carried To Final Summary

R

Bill No. 3

Concrete, Formwork & Reinforcement

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 5MASONRY</u>			
<u>PREAMBLES</u>			
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0" and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>BRICKWORK</u>			
<u>Sizes In Descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.			
<u>Hollow Walls</u>			
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.			
<u>Face Bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour.			
Carried To Trade Summary			R
Bill No. 4 Masonry			

Pointing

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

Samples, Etc.

Rates for brickwork, faced brickwork, etc. shall include for all required samples.

BRICKWORK(CPAP Work Group No. 116 Unless Otherwise Stated)

Brickwork Of NFP Bricks In Class II Cement Mortar In

1	Half brick wall.	m2	36
2	Half brick wall in beamfilling.	m2	35
3	One brick wall.	m2	12
4	One brick wall in two half brick thicknesses including wire ties.	m2	102
5	Ditto, but circular on plan.	m2	4
6	270mm Cavity wall in two half brick thicknesses including wire ties.	m2	131
7	340 x 340mm Half brick wall in hollow piers filled with 15MPa cement concrete and two Y10 bars.	m	9
8	230mm Wide sloping brick-on-edge cill including plaster on top, edge and 60mm projecting soffit.	m	16

Brickwork Sundries

9	Bag down outer face of inner skin of brick wall with 4.1 cement slurry and apply two coats bituminous emulsion including working around ties.	m2	248
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Carried To Trade Summary

Bill No. 4
Masonry

R

1	High density 32-36kg/m ³ rigid extruded polystyrene 100% closed cell insulation board of 30mm thickness and 600mm width with tongue and groove joints between vertical brick surfaces and fixed to inner skin of brick cavity wall with galvanised mild steel holding back ties 2mm thick with fish tail ends built into horizontal joints in wall at maximum 300mm centres along top and bottom edges, including neatly notching board and edges around wall ties, window and door frames, all fixed in strict accordance with manufacturers instructions.	m ²	140
2	Build 50mm cavity of hollow wall solid vertically for half brick width.	m	40
3	Build 50mm cavity of hollow wall solid horizontally for two courses.	m	11
4	50 x 75mm Triangular cement mortar fillet in cavity wall including forming weep holes.	m	93
<u>Movement Joints</u>			
5	10mm Bitumen impregnated softboard joint filler set between vertical brick surfaces not exceeding 300mm wide.	m	6
6	8mm Diameter mild steel dowel 1010mm long, one end built 500mm deep into side of brick wall and other end grouted 500mm deep with 1:1 cement slurry including drilling hole 12mm diameter x 500mm deep.	No	44
<u>2,5mm Galvanised Brick Reinforcement</u>			
7	Galvanised brick reinforcement 80mm wide.	m	519
8	Ditto, but 155mm wide.	m	944
9	Ditto, but 235mm wide.	m	825
<u>Precast Prestressed Vibrated Cement Concrete (30MPa) Lintols Including Moulds, Reinforcement, Propping, Etc</u>			
10	Lintol 100mm wide x 75mm deep in lengths not exceeding 3000mm.	m	79
11	Lintol 150mm wide x 75mm deep in lengths not exceeding 3000mm.	m	44
<u>Ties, Cramps, Etc</u>			
12	1,6 x 30mm Galvanised hoop iron tie 750mm long with one end built 340mm deep into top of brickwork and other end wrapped around rafter and spiked to plate.	No	57

Carried To Trade Summary

Bill No. 4
Masonry

R

1	1,6 x 30mm Galvanised hoop iron tie 750mm long with one cast into top of concrete beam and other end wrapped around rafter and spiked to plate.	No	6		
2	1,6 x 30mm Galvanised hoop iron cramp 450mm long with one end twice screwed to timber frame and other end built into brickwork and turned up into joint.	No	24		
3	8mm Diameter steel dowel 100mm long to timber door frame including mortice in timber and concrete.	No	8		
<u>Air Bricks, Etc (Provisional)</u>					
4	225 x 150mm Clay verminproofed louvred airbrick.	No	6		
5	225 x 150mm Cement verminproofed louvred airbrick.	No	6		
<u>Natural Grey Fibre Reinforced Cement Stock Cills</u>					
6	15mm Cill 150mm wide set flat and slightly projecting.	m	16		
Carried To Trade Summary					
Bill No. 4 Masonry				R	

Bill No. 4

Masonry

Trade Summary

Total Brought Forward From Page No.

Page
No

50

51

52

53

Amount

Carried To Final Summary

R

Bill No. 4
Masonry

Item No	Quantity	Rate	Amount
BILL No. 6WATERPROOFING(CPAP Work Group No. 120 Unless Otherwise Stated)			
<u>PREAMBLES</u>			
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Waterproofing</u>			
Waterproofing to roofs, etc. must be done by an approved firm of specialists in this type of work and must be carried out in accordance with the Manufacturer's Instructions. The Contractor must provide a ten year guarantee acceptable to the Employer for this work and deposit same with the Architect before the work is put in hand.			
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.			

<u>DAMP PROOFING TO WALLS AND FLOORS</u>			
<u>One Layer 250 Micron Waterproof Sheeting</u>			
1	Under surface beds.	m2	17
Carried To Trade Summary			R
Bill No. 5 Waterproofing			

1	Under raft slab and around raft beam. <u>One Layer 375 Micron Embossed Dampproof Sheeting</u>	m2	296		
2	On walls. <u>WATERPROOFING TO ROOFS, ETC</u> <u>4mm Thick Polyester High Performance, UV Stable, Polymer Modified Bitumen Waterproofing Membrane. Comprising Of A High Strength Polyester Core And A Top Layer Of Reinforced Glass. Including Laps, Turn-ups, Turn-downs, Etc And Preparing And Priming Concrete Or Screeded Surfaces</u>	m2	61		
3	On flat roofs. <u>JOINT SEALANTS</u> <u>Clean, Prime, Caulk, Tool And Smooth With A Elastomeric, One Part, Moisture Cured, Thixotropic Polyurethane Based Adhesive And Sealant Applied With A Pressure Caulking Gun</u>	m2	10		
4	10 x 15mm Deep in joint on vertical surfaces of brickwork or concrete including raking out expansion joint filler.	m	12		
5	10 x 15mm Deep in joint on top surfaces of concrete floor including raking out expansion joint filler.	m	29		
Carried To Trade Summary				R	
Bill No. 5 Waterproofing					

CONSTRUCTION OF NEW ECDC AT MAMPELAZWE JSS
PROJECT NO.: DOEEC/12/2023/2024

[illegible]

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL NO. 7 ROOF COVERINGS, ETC.</u>			
<u>PREAMBLES</u>			
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0" and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Fixing</u>			
Fixing shall be done according to SANS 1200HB with minimum 225mm end laps.			
<u>Guarantee</u>			
The contractor will be required to provide an Engineer and a written guarantee, stating that :			
(a) The roof sheeting is of the specified thickness.			
(b) The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years.			
(c) 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 15 year guarantee for site workmanship and water tightness.			

Carried To Trade Summary			R
Bill No. 6 Roof Coverings, Etc			

**PROFILED METAL SHEETING(CPAP Work Group No. 124
Unless Otherwise Stated)**

**0.8mm Thick Z275 Corrugated "S" Profile Galvanised Sheet Iron
Roofing Sheets And 0.8mm Thick Accessories With Serrated
Closers And Polyclosers Where Applicable, Both With
Chromadek Colour One Side, In Single Sheet Lengths And Fixed
To Wood Purlins**

1	Roof covering with pitch not exceeding 25 degrees.	m2	247
2	Ridge capping 462mm girth.	m	12
3	Hip capping 462mm girth.	m	37
4	Valley gutter lining 650mm girth, dressed across liew board and up and over adjacent battens.	m	6
5	Hole through roof sheet for 160mm diameter PVC vent pipe and flash and seal all round.	No	4

Insulation

6	Five layer laminate foil insulation, comprising of 19 gsm top and bottom foil, two 23 gsm LDPE bonding layers and one 80 gsm spunbond centre layer with 150mm wide laps at all joints, tightly strained and stapled to top of timber rafters under timber purlins.	m2	247
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(End Of CPAP Work Group No. 124)

**RAINWATER DISPOSAL (CPAP Work Group No. 125
Unless Otherwise Stated)**

**0.80mm Thick Galvanised Sheet Iron With 75mm Wide Laps,
Colomet Finish One Side**

7	150 x 125mm Rectangular section beaded eaves gutter fixed to falls on and including galvanised mild steel gutter brackets spaced at not more than 1000mm centres fixed to fibre reinforced cement fascia with galvanised bolts.	m	71
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Extra for

8	Stopped end.	No	4
9	Internal angle.	No	1
10	External angle.	No	5

Carried To Trade Summary

Bill No. 6
Roof Coverings, Etc

R

CONSTRUCTION OF NEW ECDC AT MAMPELAZWE JSS
PROJECT NO.: DOEEC/12/2023/2024

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CONSTRUCTION OF NEW ECDC AT MAMPELAZWE JSS
PROJECT NO.: DOEEC/12/2023/2024

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 8CARPENTRY & JOINERY(CPAP Work Group No. 126 Unless Otherwise Stated)</u>			
<u>PREAMBLES</u>			
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
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>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.			
<u>Decorative thermosetting plastic laminate covering</u>			
Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish.			
Carried To Trade Summary			R
Bill No. 7 Carpentry & Joinery			

CARPENTRY

ROOFS, ETC

Sawn Pine

1	38 x 76mm Trimmer to bargeboard plugged to brickwork.	m	12
2	38 x 76mm Bracing (Provisional).	m	12
3	38 x 114mm Bracing (Provisional).	m	12
4	38 x 114mm Plate.	m	69
5	38 x 114mm Valley boarding.	m	12
6	50 x 76mm Purlin.	m	381
7	38 x 50 x 114mm Fascia fixing sprocket twice countersunk screwed with 5,5mm diameter x 63mm long brass screws.	No	60
8	50 x 228mm V5 flooring bolted to tank stand base exceeding 2400mm and not exceeding 3900mm (bolts elsewhere measured).	m	70

Laminated Pine With Architectural Finish

9	50 x 150mm Beam, bolted.	m	19
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Sundries

10	Galvanised hurricane clip fixed with galvanised clout nails to timber rafter and purlin.	No	261
11	6mm Diameter x 80mm long screwbolt with head, nut and two washers.	No	96

PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC.

Prefabricated roof trusses:

Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Principal Agent.

Prices must include for all cross and windbracing according to the manufacturer's instruction.

Carried To Trade Summary

Bill No. 7
Carpentry & Joinery

R

Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.

Pre-fabricated timber roof trusses shall comply with the requirements of SANS Specification 10163 and be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.

Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.

The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.

In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.

Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements:

- (a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Institute for Timber Construction.
- (b) A polyester print, size A1 having a minimum thickness of 0,5mm, shall be submitted by the Contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services.
- (c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work.
- (d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.

The following minimum information shall be shown on the drawings:

- (a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.

Carried To Trade Summary

Bill No. 7
Carpentry & Joinery

R

- (b) Bracing as recommended by the Institute for Timber Construction.
- (c) Sizes and grading of the timber components.
- (d) Truss sizes, e.g. height of ridge or angle of pitch.
- (e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).
- (f) Separate connection details for hip, valley and jack rafters.
- (g) Maximum spacing for purlins and bracing to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.
- (h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:

"The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".

Prefabricated Timber Roof Trusses Shall Be Constructed Of South African Pine By A Firm Of Specialist Designer Manufacturers. Trusses To Be A Minimum Of 1200mm Centres And Are To Support Metal Roof Covering. Ceilings Are Either Plasterboard Or Fibre Cement (Suspended Or Fixed). Prices Must Include For The Design, Plans And Approval Of All Timber Trusses And No Claim Shall Be Considered. An Engineers Approval Certificate Is Required Once The Roof Truss Installation Is Complete And Is For The Contractors Account

Note: Tenderers are referred to the Architects roof plan drawings annexed to these bills of quantities / accompanying these bills of quantities for tender purposes. Specifications and calculations of prefabricated roof must be supplied by the contractor on award of the contract. Descriptions (prices) shall be deemed to include design.

Carried To Trade Summary

Bill No. 7
Carpentry & Joinery

R

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SUPPLEMENTARY PREAMBLES

All joinery unless otherwise specified, is to be wrot on all surfaces and prices are to include for this, including leaving clean, smooth, free from tool marks and for rounded arrises.

The sizes of all timbers for joinery are to hold to the full sizes specified.

Commercial veneer shall refer to veneer to be painted. South African Pine shall be referred to as Pine.

Where fanlights and sashes are given with type references, these references are to the drawings attached at the back of these Bills of Quantities.

Where doors and windows are given with type references, these references are to the drawings attached at the back of these Bills of Quantities.

DOORS, ETC

Pre-Sealed And Pre-Glazed Doors

- | | | | |
|---|---|----|---|
| 1 | 44mm Sash door in two panels formed of 44 x 140mm stiles, 44 x 140mm top, 44 x 140mm lock rail and 44 x 219mm bottom rail, open rebated for glass and including 10 x 19mm glazing beads cut and mitred around, (Hung) size 870 x 2032mm high with clear safety glass. | No | 2 |
|---|---|----|---|

Wrot Red Meranti

- | | | | |
|---|--|----|---|
| 2 | 44mm Framed, ledged and braced batten door, (Hung) size 925 x 1050mm. | No | 3 |
| 3 | 44mm Framed, ledged and braced batten stable door finished flush on internal face with 4mm matching plywood, (Hung) size 813 x 2032mm. | No | 1 |

Semi-Solid Core Flush Doors Finished On Both Faces With Commercial Veneer With Two Concealed Edges

- | | | | |
|---|--------------------------------------|----|---|
| 4 | 40mm Door, (Hung) size 813 x 2032mm. | No | 1 |
|---|--------------------------------------|----|---|

FRAMES, ETC

Frames And Linings (Framed)

Carried To Trade Summary

Bill No. 7
Carpentry & Joinery

R

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SUPPLEMENTARY PREAMBLES

Where fittings are given with type references, these references are to the drawings attached at the back of these Bills of Quantities.

Prices are to include for all assembling, housing, notching, screwing, pelleting, etc. and for fixing the fittings to walls and floors.

The following components relating to the fittings are specifically included and must be allowed for in the unit rates for the fittings:

Ironmongery
Metalwork
Paintwork
Glazing

1	U-shaped kitchen cupboards including granite worktops as per Architect's drawing no. 502 WD00 Detail H Kitchen Cupboards bound to the back of these Bills of Quantities (sink elsewhere measured).	No	1
2	L-shaped teachers desk with drawers as per Architect's drawing no. 503 WD00 (Teachers Desk) bound to the back of these Bills of Quantities.	No	1
3	Teachers built-in cupboard as per Architect's drawing no.200 WD01 (Plan) and drawing no. 500 WD00 (Detail D Teachers Cupboard) bound to the back of these Bills of Quantities.	No	2
4	Bag shelves as per Architect's drawing no. 504 WD00 (Detail N Classroom Cupboards) bound to the back of these Bills of Quantities.	No	1
5	L-shaped shelves to store room as per Architect's drawing no.200 WD01 (Plan) and drawing no. 501 WD00 (Detail M Store RM Shelving) bound to the back of these Bills of Quantities.	No	1

Carried To Trade Summary

R

Bill No. 7
Carpentry & Joinery

Bill No. 7

Carpentry & Joinery

Trade Summary

Total Brought Forward From Page No.

Page
No

Amount

62
63
64
65
66
67
68
69

Carried To Final Summary

R

Bill No. 7
Carpentry & Joinery

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 9CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>PREAMBLES</u>			
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<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.			
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.			
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc			
Carried To Trade Summary			R
Bill No. 8 Ceiling & Partitions			

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121.

Timbers

The sizes of all sawn and wrot timbers are to hold to the full sizes specified. South African Pine shall be referred to as Pine.

NAILED UP CEILINGS(CPAP Work Group No 129 Unless Otherwise Stated)

6.4mm Plasterboard Sheets With With 20mm Half Round Wrot Meranti Cover Strips Over Joints

- | | | | |
|---|--|----|----|
| 1 | Horizontal ceilings fixed to and including 38 x 50mm sawn Pine brandering at 400mm centres in one direction only and with additional brandering at perimeter and along joints of ceiling plates. | m2 | 85 |
| 2 | Extra over ceilings for trapdoor size 600 x 600mm in clear including all sawn and wrot Pine framing, coverstrips, etc. covered with ceiling board and fitted flush with ceiling. | No | 1 |

6mm Fibre Cement Plain Sheets With 20mm Half Round Wrot Meranti Cover Strips Over Joints

- | | | | |
|---|--|----|----|
| 3 | Horizontal ceilings fixed to and including 38 x 50mm sawn Pine brandering at 450mm centres in one direction only and with additional brandering at perimeter and along joints of ceiling plates. | m2 | 31 |
| 4 | Extra over ceilings for trapdoor size 600 x 600mm in clear including all sawn and wrot Pine framing, coverstrips, etc. covered with ceiling board and fitted flush with ceiling. | No | 2 |

Plasterboard Cornice With Bottom Edge Fixed To Walls With Steel Nails

- | | | | |
|---|---------------------|---|-----|
| 5 | 75mm Coved cornice. | m | 107 |
|---|---------------------|---|-----|

Ceiling Insulation

- | | | | |
|---|--|----|-----|
| 6 | 75mm Thick blanket type fibreglass insulation laid on top of ceilings between roof timbers, etc. | m2 | 116 |
|---|--|----|-----|

Carried To Trade Summary

R

Bill No. 8
Ceiling & Partitions

[illegible]

Item No		Quantity	Rate	Amount
<u>BILL No. 10 FLOOR COVERINGS, WALL LININGS, ETC (CPAP Work Group No. 130 Unless Otherwise Stated)</u>				
<u>PREAMBLES</u>				
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0" and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
<u>Proprietary Products In Descriptions</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
<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.				
Floor coverings are laid on screeded surfaces and wall linings on plastered surfaces unless otherwise described.				

<u>FLOOR COVERINGS</u>				
<u>Semi-Flexible Vinyl Floor Tiles Size 300 x 300 x 2,5mm Thick Of Specified Colour Laid With Adhesive To Pattern</u>				
1	On floors.	m2	94	
2	On timber platform.	m2	2	
Carried To Trade Summary				R
Bill No. 9 Floor Coverings, Etc				

<u>Interlocking High Quality EVA (Closed Cell Ethyl Vinyl Acetate) Foam Mat</u>		
1	2950 x 2950 x 12mm Interlocking mat.	No 1
<u>DIVIDING STRIPS, ETC</u>		
<u>Natural Anodised Aluminium Edge Strips, Etc</u>		
2	85 x 30mm High mill finish aluminium retro-fit stair nosing with two 35mm ridged beige inserts plugged and screwed to timber.	m 7
3	Ditto but to concrete.	m 6
<u>Sundries</u>		
4	Prepare and apply three coats of a water based floor dressing complying to SABS 1042 on vinyl flooring.	m2 95
Carried To Trade Summary		R
Bill No. 9		
Floor Coverings, Etc		

CONSTRUCTION OF NEW ECDC AT MAMPELAZWE JSS
PROJECT NO.: DOEEC/12/2023/2024

[illegible]

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL No. 11IRONMONGERY(CPAP Work Group No. 132 Unless Otherwise Stated)</u> <u>PREAMBLES</u> For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used. <u>SUPPLEMENTARY PREAMBLES</u> <u>Preambles</u> The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section. <u>Proprietary Products In Descriptions</u> 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 principal agent for consideration. <u>Descriptions</u> Ironmongery is fixed to timber unless otherwise described. ----- <u>IRONMONGERY TO DOORS, FRAMES, ETC</u> <u>Hinges, Bolts, Etc</u>			
1	Union 8352-100SS/2 or other equal approved power load butt hinge.	No	18	
	Carried To Trade Summary			R
	Bill No. 10 Ironmongery			

[illegible]

1	25mm Diameter Meranti longarm 1200mm long, shouldered and fitted with brass two-way pole hook with two spring steel clips screwed to and including 69 x 69 x 32mm chamfered Meranti block plugged to wall and 88 x 88 x 32mm Meranti base as detail R on drawing 504 WD00 Details.	No	1		
<u>BATHROOM FITTINGS</u>					
2	32mm Diameter Chairman Industries (Tel. 011 624-1222) or other equal approved code DL2 stainless steel side grab rail plugged to wall.	No	1		
3	Ditto, but code SR2 stainless steel rear grab rail plugged to wall.	No	1		
4	Chromium plated thief-proof toilet roll holder plugged and screwed to wall.	No	4		
<u>WRITING BOARDS, ETC</u>					
5	Vitrex System or other equal approved 1000 code 1009 vitreous enamelled green writing board or other equal approved size 2400 x 1140mm with aluminium chalk rail, plugged to wall.	No	1		
<u>SIGNAGE</u>					
<u>3mm Thick translucent Perspex plate 52mm high with white vinyl sticker background with black vinyl "Arial" lettering 30mm high, sticker background applied from back, fixed with dome headed screws centrally to external face of doors 1700mm AFFL (top of sign).</u>					
6	Sign to read "08"	No	1		
7	Sign to read "09"	No	1		
8	Sign to read "54"	No	1		
9	Sign to read "55"	No	1		
10	Sign to read "60"	No	1		
11	Sign to read "61"	No	1		
12	Sign to read "67"	No	1		
Carried To Trade Summary				R	
Bill No. 10 Ironmongery					

	<u>3mm Thick translucent Perspex plate 52mm high with white vinyl sticker background with black vinyl "Arial" lettering 30mm high, sticker background applied from back, fixed with dome headed screws at all corners to external face of doors 1700mm AFFL (top of sign).</u>			
1	Sign to read "PARAPLEGIC"	No	1	
	<u>3mm Thick translucent Perspex plate 250mm high with white vinyl sticker background with black vinyl "Arial" lettering 100mm high, sticker background applied from back, plugged and fixed to wall with dome headed screws and wall plugs. Screws at 300mm maximum centres.</u>			
2	Sign to read "GRADE R ABLUTIONS"	No	1	
3	Sign to read "TOILET".	No	1	
4	Sign to read "GRADE R".	No	1	
	<u>Single sided photo luminescent film sign, on SABS 1186 certificate ABS plastic, plugged and fixed to wall at all four corners with chrome plated sunk semi-dome type screws on a double sided tape backing to top, bottom and ends</u>			
5	Arrow down and fire extinguisher (As per sign F13 on drawing no: 594 bound to the back of theses Bills of Quantities).	No	2	
Carried To Trade Summary				R
Bill No. 10 Ironmongery				

Bill No. 10

Ironmongery

Trade Summary

Total Brought Forward From Page No.

Page
No

77

78

79

80

Amount

Carried To Final Summary

R

Bill No. 10
Ironmongery

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL NO. 12</u>STRUCTURAL STEELWORK <u>(PROVISIONAL)(CPAP Work Group No. 134 Unless</u> <u>Otherwise Stated)</u> <u>PREAMBLES</u> For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used. <u>SUPPLEMENTARY PREAMBLES</u> <u>Preambles</u> The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section. <u>General</u> Steel mass will be calculated according to the tables issued by the SA Institute of Steel Construction. All structural steel drawings to be read in conjunction with the drawings of the architect. Any discrepancies to be reported to the engineer immediately. Structural steelwork to be carried out in accordance with SANS 1200H. All detailing and connections to comply with the requirements of SANS 0162. Any discrepancies in specification must be reported to the engineer. <u>Approval By The Engineer</u> A full set of shop drawings must be submitted to the Engineer for approval before manufacturing commences. Any details of connections not provided by the Engineer must be submitted to him for approval before manufacturing commences. Any deviations from details provided by the Engineer must be approved by him in writing before manufacturing commences.			
	Carried To Trade Summary		R	
	Bill No. 11 Structural Steelwork (Provisional)			

Materials

All structural steel to be manufactured of grade 350W steel.

All bolts, threaded bar and holding down bolts to be Grade 4.8 to SANS 135 unless otherwise specified.

All materials to comply with relevant SABS codes.

Welds

Welds to be with E60xx electrodes with minimum ultimate strength of 410MPa to the American Welding Standards.

All welds to be 6mm fillet welds right round unless specified otherwise.

Welds shall be done in a manner that will eliminate warping of members.

Cutting And Drilling

No cutting of holes for bolts with gas flame will be permitted.

All visible edges of members cut with gas must be neatly ground down to eliminate all traces of gas cutting.

Erection Of Structures

All structural members to be at least temporarily braced or propped during erection to ensure stability of the structure.

All structural members to be aligned into final position before any bolts are tightened. No structural elements to be heated, bent or distorted in any manner to accomplish assembly or alignment.

Cleaning And Painting

All steelwork to be cleaned with mechanical wire brush to remove all mill shale, surface corrosion, grease, dust, etc. No pitted members will be accepted.

Structural steel to be degreased and prepared in accordance with the requirements set by the manufacturer of undercoats.

Carried To Trade Summary

Bill No. 11
Structural Steelwork (Provisional)

R

HOT DIPPED GALVANISED STEEL COLUMNS, BEAMS, ETC TO TWO RAINWATER STANDS

Welded Columns In Single Lengths With Flat Section Base, Top, Bearer And Connection Plates, Including All Welding, Cutting, Drilling, Screwing, Bolting, Grinding Smooth And Touching Up With Cold Galvanising, Etc

1	70 x 70 x 6mm Angle section in stanchion columns.	kg	322
2	10mm Plate in base, cap or end plate.	kg	31
3	10mm Plate in cleats, etc.	kg	3
4	10mm Plate in gussets and connections.	kg	31
5	10mm Plate in stiffeners.	kg	3

Welded Beams In Single Lengths With Flat Section Base, Top, Bearer And Connection Plates, Including All Welding, Cutting, Drilling, Screwing, Bolting, Grinding Smooth And Touching Up With Cold Galvanising, Etc

6	IPE 160 x 82 x 16Kg/m I-section in beams.	kg	589
7	10mm Plate in base, cap or end plate.	kg	56
8	10mm Plate in cleats, etc.	kg	6
9	12mm Plate in gussets and connections.	kg	56
10	10mm Plate in stiffeners.	kg	6

Bolts

11	M12 grade 4.8 bolt with nut and washers.	kg	144
12	Set of four 16mm Diameter anchor bolts 420mm long with nuts and washers including 5mm flat bar spacer frame (casting into concrete elsewhere measured).	No	8

Bracing Bolted On Including All Welding, Cutting, Drilling, Screwing, Bolting, Grinding Smooth And Touching Up With Cold Galvanising, Etc

13	50 x 50 x 5mm Angle section in braces.	kg	139
14	60 x 60 x 6mm Angle section in braces.	kg	456

Carried To Trade Summary

Bill No. 11
Structural Steelwork (Provisional)

R

1	10mm Plate in cleats.	kg	57		
Carried To Trade Summary				R	
Bill No. 11 Structural Steelwork (Provisional)					

Bill No. 11

Structural Steelwork (Provisional)

Trade Summary

Total Brought Forward From Page No.

Page
No

82

83

84

85

Amount

Carried To Final Summary

R

Bill No. 11

Structural Steelwork (Provisional)

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 13METALWORK(CPAP Work Group No 136 Unless Otherwise Stated)</u>			
<u>PREAMBLES</u>			
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Descriptions</u>			
Tenderers are referred to architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes.			
<u>Descriptions Of Bolts, Anchors, Etc.</u>			
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 To Trade Summary			R
Bill No. 12 Metalwork			

Aluminium Doors, Windows, Etc.

Doors and windows shall comply with AAAMSA design criteria.

Glazing shall comply with SAGGA regulations. Glass type shall be type as shown on the window schedules/drawings appended to these bills of quantities. 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:

- (a) A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product.
- (b) A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively.
- (c) 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.
- (d) 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.
- (e) A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years.

SUNDRY METALWORK

Galvanised Mild Steel

- 1 8mm Diameter screwbolt 65mm long with head, nut and two washers.

No

17

Carried To Trade Summary

Bill No. 12
Metalwork

R

1	8mm Diameter screwbolt 100mm long with head, nut and two washers.	No	17		
2	10mm Diameter screwbolt 100mm long with head, nut and two washers.	No	12		
3	75 x 3mm Thick twice bent U-shaped roof truss bracket 375mm girth with 75 x 100mm lug welded on, bracket three times holed for 8mm diameter bolts (bolts elsewhere measured).	No	17		
4	89mm Outside diameter x 3mm thick tubular column 2880mm long with 200 x 200 x 8mm thick flat section plate welded to one end and with 85 x 8mm thick x 580mm girth channel shaped bracket four times holed for 8mm diameter bolts (bolts elsewhere measured) and welded to other end including setting up in position and casting into concrete base.	No	3		
<u>The Following In Galvanised Mild Steel Framed And Welded Grille Gates And Screens Including All Hinges, Barrel And Padbolts, Lockbox, Housing For Bolt Of Lock Including All Welding, Cutting, Drilling, Screwing, Bolting, Grinding Smooth, Touching Up With Cold Galvanising, Etc And Fixing Complete In Position All As Attached Drawing No.600 Bound To The Back Of These Bills Of Quantities</u>					
5	G2 double gate, size 2130 x 2125mm high overall.	No	1		
6	G3 single gate, size 1040 x 2125mm high overall.	No	1		
7	G4 single gate, size 1180 x 2355mm high overall.	No	1		
8	G5 single gate, size 1040 x 2125mm high overall.	No	1		
<u>GALVANISED STEEL CAT LADDERS</u>					
9	Welded cat ladder 640 x 718mm wide and 10000mm high overall to tank stand, made of two 70 x 70 x 6mm angle section vertical stringers, R20 rungs at 300mm centres, 50 x 8mm hoops at 870mm centres and including five 50 x 6mm flat section vertical stringers, bolted to water tank stand (bolts elsewhere)	kg	950		
<u>GALVANISED STEEL HANDRAILS</u>					
<u>Welded handrails to elevated tank stand</u>					
10	60 x 60 x 5mm Angle section rails.	kg	117		
11	60 x 60 x 5mm Angle section balusters.	kg	208		
Carried To Trade Summary				R	
Bill No. 12 Metalwork					

1	Extra over angle.	No	8		
2	Extra over for T-intersection.	No	64		
3	Extra over for mitred L-intersection.	No	8		
4	Bolts.	kg	33		
<u>PRE-GALVANISED PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u>					
<u>1,6mm Thick Door With 1,6mm Thick Double Rebated Frame For One Brick Wall Complete With Butts, Etc And Including Setting Up, Building In, Filling Back Of Frame With Cement Mortar, Etc</u>					
5	Door type A size 813 x 2032mm and frame including door louvre, locks, etc.	No	1		
<u>HOT DIP GALVANISED STEEL ROLLER SHUTTER DOORS WITH CHROMADEK OR OTHER APPROVED PRE-PAINTED FINISH</u>					
6	Push up operation roller shutter door formed of slats of suitable width and thickness and complete with overhead gear, guides, fixing bolts, etc., to suit clear opening size 1000 x 1100mm high fixed in position and including mortices in brickwork or concrete for fixing bolts.	No	1		
<u>NATURAL ANODISED ALUMINIUM WINDOWS, DOORS, ETC(CPAP Work Group No. 149 Unless Otherwise Stated)</u>					
<u>Casement 36 Pre-Glazed Projected-Out Aluminium Windows Complete With Ironmongery And Including Setting Up, Fixing In Position, Filling Back Of Frame With Cement Mortar, Sealing Around With Silicone, Etc. Including Burglar Bars Fixed To Wall Reveals As Per Drawing No:610 Bound To The Back Of These Bills Of Quantities</u>					
7	Window type PT66 size 600 x 600mm glazed with 4mm Pacific obscure glass.	No	4		
8	Window type PT99 size 900 x 900mm glazed with 4mm clear float glass.	No	3		
9	Window type PT912 size 900 x 1200mm glazed with 4mm clear float glass.	No	12		
Carried To Trade Summary				R	
Bill No. 12 Metalwork					

Casement 36 Pre-Glazed Projected-Out Aluminium Windows Complete With Ironmongery And Including Setting Up, Fixing In Position, Filling Back Of Frame With Cement Mortar, Sealing Around With Silicone, Etc As Per Drawing No:610 Bound To The Back Of These Bills Of Quantities

1	Window in one fixed pane size 900 x 900mm glazed with 4mm clear float glass.	No	1
2	Window in one fixed pane size 1200 x 900mm glazed with 4mm clear float glass (one jamb fixed to side of aluminium door frame D3).	No	1

Pre-Glazed Aluminium Frames, Doors, Sidelights, Etc Complete With Ironmongery And Including Setting Up, Fixing In Position, Filling Back Of Frame With Cement Mortar, Sealing Around Same With Silicone, Etc As Per Drawing No:600 Bound To The Back Of These Bills Of Quantities

3	Frame and door in two leaves type D1 size 1870 x 2050mm high overall as attached drawing.	No	1
4	Frame and door in one leaf type D3 size 900 x 2050mm high overall including as attached drawing.	No	1

Door Type 1 Ironmongery

5	100mm Aluminium sinkless hinge code 1040, centre pin with standard alignment grooving for easy fitment.	Pairs	3
6	Union Protea CB612-05SC or other equal approved lever furniture with profile cylinder cutout.	Sets	1
7	Dorma D036S or other equal approved cylinder sash lock stainless steel.	No	1
8	Dorma DDC056501 KD 65mm or other equal approved satin nickel five pin euro-profile double cylinder key to differ.	No	1
9	150mm Union M1519N or other equal approved aluminium flush bolt for use on aluminium doors, white powder coated.	No	2
10	Dorma DPS-SS-032 or other equal approved dust proof strike stainless steel.	No	1
11	Halcast 401SC or other equal approved doorstep and holder fixed to concrete floor.	No	2

Carried To Trade Summary

Bill No. 12
Metalwork

R

Door Type 3 Ironmongery

1	100mm Aluminium sinkless hinge code 1040, centre pin with standard alignment grooving for easy fitment.	Pairs	1.5
2	Union Protea CB612-05SC or other equal approved lever furniture with profile cylinder cutout.	Sets	1.0
3	Dorma D036S or other equal approved cylinder sash lock stainless steel.	No	1
4	Dorma DKC056501 KD 65mm or other equal approved five pin satin nickel euro-profile knob cylinder key to differ. satin nickel.	m	1
5	Halcast 401SC or other equal approved doorstop and holder fixed to concrete floor.	No	1

(End Of CPAP Work Group No. 149)

Carried To Trade Summary

Bill No. 12
Metalwork

R

Bill No. 12

Metalwork

Trade Summary

Total Brought Forward From Page No.

Page
No

Amount

87

88

89

90

91

92

Carried To Final Summary

R

Bill No. 12
Metalwork

Item No		Quantity	Rate	Amount
BILL No. 14PLASTERING(CPAP Work Group No. 142 Unless Otherwise Stated)				
<u>PREAMBLES</u>				
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
<u>Proprietary Products In Descriptions</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				

<u>SCREED</u>				
<u>4:1 Cement Screed On Concrete</u>				
1	30mm Thick on floors and landings.	m2	98	
<u>GRANOLITHIC</u>				
<u>Untinted Granolithic On Concrete</u>				
2	25mm Thick on floors.	m2	22	
3	30mm Thick (average) to door threshold not exceeding 300mm girth including reedings.	m2	0.3	
4	19 x 75mm High skirting.	m	37	
<u>EXTERNAL PLASTER</u>				
Carried To Trade Summary				R
Bill No. 13 Plastering				

	<u>4:1 Cement Plaster On Brickwork On</u>				
1	Walls.	m ²	268		
2	Walls, circular on plan.	m ²	8		
3	Projecting and isolated piers.	m ²	11		
4	Narrow widths.	m ²	13		
	<u>4:1 Cement Plaster On Concrete On</u>				
5	Narrow widths.	m ²	3		
	<u>INTERNAL PLASTER</u>				
	<u>5:1 Cement Plaster On Brickwork On</u>				
6	Walls.	m ²	289		
7	Narrow widths.	m ²	13		
	<u>5:1 Cement Plaster On Concrete On</u>				
8	Projecting and isolated columns.	m ²	1		
9	Ceilings.	m ²	4		
10	Projecting and isolated beams.	m ²	9		
	<u>DIVIDING STRIPS, ETC</u>				
11	3 x 25mm Flat section brass dividing strip or waterbar set on edge in screed between different floor finishes.	m	4		
				R	
Carried To Trade Summary					
Bill No. 13 Plastering					

Bill No. 13

Plastering

Trade Summary

Total Brought Forward From Page No.

Page
No

94

95

Amount

Carried To Final Summary

R

Bill No. 13
Plastering

Item No		Quantity	Rate	Amount
<u>BILL No. 15TILING(CPAP Work Group No. 144 Unless Otherwise Stated)</u>				
<u>PREAMBLES</u>				
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
<u>Proprietary Products In Descriptions</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
<u>Descriptions</u>				
All tiling is to be fixed with approved adhesive unless otherwise described to screeded or plastered surfaces which are elsewhere measured. All jointing is to be done with an approved grout unless otherwise described.				

<u>WALL TILING</u>				
<u>Ceramic Glazed "A Grade" Wall Tiles Size 150 x 150 x 8mm Thick, Fix With Adhesive And Joint And Point With 4mm Flush Joints In Coloured Waterproof Grout On Plaster (Elsewhere Measured)</u>				
1	On isolated panels, splashbacks, etc. to walls not exceeding 1m2.	m2	5	
<u>Sundries</u>				
2	PVC tile edge trim to wall tiles.	m	5	
Carried To Final Summary				R
Bill No. 14 Tiling				

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL No. 16PLUMBING (PROVISIONAL)(CPAP Work Group No. 148 Unless Otherwise Stated)</u> <u>PREAMBLES</u> For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used. <u>SUPPLEMENTARY PREAMBLES</u> <u>Preambles</u> The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section. <u>Excavations</u> No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling. <u>Laying, Backfilling, Bedding, Etc. Of Pipes</u> Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled. Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SANS 1200L : Medium-pressure pipelines SANS 1200LD : Sewers SANS 1200LE : Stormwater drainage Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200DB : Earthworks (Pipe trenches). Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be Class B bedding.			
	Carried To Trade Summary		R	
	Bill No. 15 Plumbing & Drainage (Provisional)			

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.

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.

General

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).

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.

Waste Unions

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

Sealing Of Edges

Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone.

Carried To Trade Summary

Bill No. 15
Plumbing & Drainage (Provisional)

R

Stainless Steel Basins, Sinks, Wash Troughs, Urinals, Etc.

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.

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.

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.

High Density Polyethylene (HDPE) Pipes And Fittings

Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings.

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 anti-syphon 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.

Carried To Trade Summary

Bill No. 15
Plumbing & Drainage (Provisional)

R

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

"Densyl" Petrolatum Anti-corrosion Tape As Manufactured By Denso SA (Pty) Ltd.

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

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

Prices for wrapping of pipes shall include for all work as described to couplings in the length.

Disinfection Of Water Pipework

Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere).

As-Built Drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere).

RAINWATER TANKS, ETC

- | | | | |
|---|--|----|---|
| 1 | 5500 Litre horizontal plastic seamless water storage tank complete with fixing lugs and lid, fitted with and including 15mm brass bibtap with handle suitable for padlocking and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire embedded into concrete. | No | 2 |
|---|--|----|---|

Carried To Trade Summary

Bill No. 15
Plumbing & Drainage (Provisional)

R

1	5000 Litre plastic seamless water storage tank complete with fixing lugs and lid, fitted with and including 15mm brass bibtap with handle suitable for padlocking and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire embedded into concrete.	No	2
2	10 000 Litre plastic seamless water storage tank complete with fixing lugs and lid and setting in position on elevated water tank stand (6m high extreme, stand elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire.	No	2
3	Hole through side of tank for 32mm diameter pipe.	No	20
4	Hole through top of tank lid for 100mm diameter pipe.	No	5
5	30mm Union or other equal approved padlock with 20mm stainless steel shackle.	No	5
6	Purain or other equal approved rainwater filters PR100 model with non-return valve and chamber cover.	No	5
7	Adaptor from 75mm diameter aluminium rainwater pipe to 100mm diameter inlet of PR100 rainwater filter.	No	5
8	Hole through side of tank lid for and fit 110mm Purain or other equal approved Seal-110 rubber seal.	No	5
9	100mm Diameter PVC rainwater pipes.	m	5
10	100mm Diameter PVC bend.	No	5
11	Float valve and connection to 32mm galvanised water inlet pipe including all fittings and adaptors (pipe elsewhere measured).	No	18
12	32mm PVC straight connector.	No	18
<u>SOIL DRAINAGE</u>			
<u>(CPAP Work Group No. 146 Unless Otherwise Stated)</u>			
Carried To Trade Summary			R
Bill No. 15 Plumbing & Drainage (Provisional)			

Twin Wall uPVC Socketed Soil Piping (SABS 1601) Including Short Lengths, Cutting, Jointing, Laid In Trenches Including Compacted Bedding Cradle And Fill Blanket As SABS 1200 LB (Flexible Pipe Bedding), Excavation, Risk Of Collapse, Keeping Excavations Free Of Water And Backfilling With Selected Material From The Excavations As SABS 1200 DB

1	110mm Pipe vertically or ramped to cleaning eyes, etc. (no excavation).	m	4
2	110mm Pipe and excavation not exceeding 1000mm deep.	m	30
3	Ditto, but excavation exceeding 1000mm and not exceeding 2000mm deep.	m	30
<u>Extra For</u>			
4	110mm 45 Degree bend.	No	6
5	110mm Access junction.	No	6
6	110mm Gully trap with hopper head.	No	3
<u>The Following In French Drain Soakaway</u>			
7	Excavate in earth not exceeding 2000mm deep for pipe trench.	m3	32
8	Extra over excavations in earth to bases and trenches for excavation in soft rock.	m3	3
9	Ditto, but in hard rock.	m3	2
10	Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.	m2	111
11	Allow for keeping excavations free from water.		Item
12	Extra over all excavations for carting away from the site all surplus excavated material.	m3	5
13	Ditto, but for spreading and levelling over site within 150mm radius of the excavations.	m3	5
14	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated as backfilling to trenches, bases, etc.	m3	22
15	20mm Stone filling around pipe.	m3	11

Carried To Trade Summary

R

Bill No. 15
Plumbing & Drainage (Provisional)

1	Nonwoven continuous filament needle-punched polyester geotextile with 150mm end laps wrapped around stone filling.	m2	115
2	110mm Perforated UPVC pipe laid in stone filling.	m	60
3	Extra for 110mm junction.	No	15
<u>The Following In Conservancy Tank</u>			
4	Excavate in earth not exceeding 2000mm deep.	m3	59
5	Extra over excavations in earth to for excavation in soft rock.	m3	3
6	Ditto, but in hard rock.	m3	6
7	Excavate in earth for working space (at Contractor's discretion) exceeding 1500mm and not exceeding 3000mm deep to side of ?concrete wall for the erection of formwork and return, fill and consolidate on completion. (Note: Distance from face of wall to side of excavation is ? mm).	m2	63
8	Extra for excavation for working space in soft rock.	m2	6
9	Extra for excavation for working space in hard rock.	m2	3
10	Extra over all excavations for carting away from the site all surplus excavated material.	m3	45
11	Allow for risk of collapse to sides of trench and base excavations exceeding 1500mm deep.	m2	63
12	Allow for keeping excavations free from water.		Item
13	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated as backfilling to trenches, bases, etc.	m3	13
14	Cement concrete (10MPa) in blinding cast against excavated surfaces.	m3	1
15	Cement concrete (25MPa) in bottoms cast against blinding.	m3	4
16	Cement concrete (25MPa) in cover or reducer slab.	m3	4
17	Float top of concrete cover slab to falls, with a wood float and finish with a brushed non-skid surface whilst concrete is still green with the addition of 2.1 sand and cement as necessary.	m2	22
Carried To Trade Summary			R
Bill No. 15 Plumbing & Drainage (Provisional)			

1	Class F1 rough formwork to soffit of slab including removal through opening size 450 x 600mm.	m2	16		
2	Class F1 rough formwork to edge, riser, end, reveal, etc. not exceeding 300 mm wide or high.	m	28		
3	Extra over formwork to soffit of slab for forming rebated opening through 150mm thick concrete slab, size 450 x 600mm for manhole and frame.	No	4		
4	Mild and high tensile steel rod reinforcement of varying diameters to bottom, walls and slab.	kg	410		
5	High tensile steel mesh Ref. 395 to concrete catchpit base.	m2	29		
6	One brick wall of extra hard burnt bricks in 3.1 cement mortar.	m2	49		
7	Galvanised brick reinforcement 160mm wide.	m	572		
8	End of 110mm diameter PVC pipe built into brickwork.	No	2		
9	End of 160mm diameter concrete pipe built into brickwork.	No	2		
10	Standard pattern cast iron step iron and building both ends into brick wall in cement mortar.	No	16		
11	450 x 600mm x 74kg type 8A cast iron two piece double seal manhole cover and frame bedded on top of concrete manhole cover slab.	No	4		
12	110m PVC junction.	No	2		
13	160m PVC junction.	No	2		
14	3.1 Cement plaster with Blue Circle waterproofing compound added on floors.	m2	16		
15	Ditto, but on walls.	m2	52		
	<u>Sundries</u>				
16	Cement concrete (15MPa) in encasing to 110mm diameter horizontal pipe of a minimum thickness of 150mm around pipe, including all necessary casing.	m	4		
17	P.V.C cleaning eye and frame and joint to top of 110mm P.V.C pipe and 350 x 350 x 150mm concrete (15MPa) collar around same.	No	2		
Carried To Trade Summary				R	
Bill No. 15 Plumbing & Drainage (Provisional)					

Sundries

1	Extra over excavation in earth as described for drain trenches, chambers, etc., for excavation in soft rock.	m3	5
2	Ditto, but in hard rock.	m3	2
3	Extra over all excavations for drain trenches for carting away from the site all surplus material from the excavations (measured net - no allowance for bulking).	m3	29

(End Of CPAP Work Group No. 146)

SANITARY PLUMBING

uPVC Socketed Soil, Waste And Vent Piping And Fittings (SABS 967) Including Short Lengths, Cutting, Jointing And Holderbats

4	40mm Pipe and fixing to falls to walls, floors, in roofs, soffit of concrete slab, in chases (including chases and making good), in concrete, etc.	m	9
5	50mm Ditto.	m	12
6	110mm Ditto.	m	2
7	160mm Ditto.	m	14

Extra For

8	160mm Vent cowl.	No	4
9	50mm Reducer.	No	1
10	40mm Bend.	No	3
11	50mm Bend.	No	5
12	110mm Bend.	No	4
13	40mm Access bend.	No	3
14	50mm Access bend.	No	3
15	110mm Access bend.	No	4
16	110mm Pan collar and joint to outlet of W.C. pan.	No	4

Carried To Trade Summary

Bill No. 15
Plumbing & Drainage (Provisional)

R

<u>WASTE UNIONS, TRAPS, ETC.</u>					
<u>Brass</u>					
1	40mm Shallow seal bath P trap with chrome plated grating as Cobra code: 373 or other equal approved.	No	2		
<u>Catalogue Numbers Refer To "Cobra Brassware" Catalogue Or Other Equal Approved Chromium Plated Brassware</u>					
2	"303" 40mm Basin waste complete with shank, backnut, plug and chain.	No	2		
3	"316/N" 48mm Sink waste complete with shank, backnut, plug and chain.	No	1		
4	"350" 32 x 40mm Bottle trap or other equal approved, joints to outlet of sanitary fitting and to end of PVC pipe and including adaptor.	No	2		
5	40mm Flexitrap plain medium P-trap including joints to outlets of bowl and end of pipe.	No	4		
<u>SANITARY FITTINGS</u>					
<u>Stainless Steel</u>					
6	Franke Citiline DT135E or other equal approved inset type sink and drainer unit, size 1350 x 457mm overall with double end bowls and fitted into opening in worktop and sealed all round with anti-fungicidal silicone sealant.	No	1		
7	Franke Economy type Model ET101 or other equal approved single compartment washtrough, size 540 x 440 x 235mm deep overall with fixing lugs fixed to wall.	No	1		
<u>White Glazed Vitreous China Fittings Including Assembling And Fixing In Position, Expanding Bolts And Mortices In Brick Or Concrete Walls, Connecting Up, Etc. (Tap And Mixer Set Reference Numbers Are Those Of Cobra Brassware)</u>					
8	Basin size 510 x 430mm overall and fixed to wall with two 8448Z0 bolts.	No	2		
9	Mini low level W.C. suite comprising washdown pan with P-trap, heavy duty plastic double flap seat, 6 litre cistern with lid and fittings, 40mm white PVC flush pipe, one end jointed to flushing cistern and other end jointed to W.C.pan.	No	3		
Carried To Trade Summary				R	
Bill No. 15 Plumbing & Drainage (Provisional)					

1	Paraplegic low level W.C. suite comprising washdown pan, heavy duty double flap white plastic seat, matching 9 litre low-level cistern with lid and fitments, chromium plated side-flush lever, 40mm white PVC flush pipe and fixed complete to wall and floor.	No	1		
<u>HOT AND COLD WATER SUPPLY</u>					
<u>Galvanised Mild Steel Screwed And Socketed Pipes Including Short Lengths, Cutting, Jointing And Holderbats</u>					
2	32mm Pipe fixed to brick tank stands and PVC tanks.	m	70		
3	32mm Pipe fixed to steel water tower structure.	m	31		
4	50mm Ditto.	m	13		
5	50mm Pipe and fixing to walls, floors, in roofs, soffit of concrete slab, in chases (including chases and making good), in concrete, etc.	m	14		
6	50mm Pipe and laying in ground 500mm deep including excavation, bedding, backfilling, etc.	m	2		
<u>Extra For</u>					
7	32mm Bend.	No	20		
8	50mm Bend.	No	6		
9	50mm Tee.	No	1		
10	32 x 63mm Straight reducer PVC to copper.	No	2		
11	50 x 63mm Straight reducer PVC to galvanised.	No	3		
12	50 x 32mm Straight reducer.	No	4		
13	50 x 40mm Straight reducer.	No	2		
14	63mm Socketed flange adaptor.	No	2		
15	50mm Unions.	No	5		
16	32mm Copper to galvanised straight connector.	No	18		
17	32mm PVC to galvanised straight connector.	No	2		
18	32mm PVC to copper straight connector.	No	18		
Carried To Trade Summary				R	
Bill No. 15 Plumbing & Drainage (Provisional)					

1	32mm Nipple or barrel nipple.	No	4		
2	50mm Ditto.	No	3		
3	32mm Reducing bush.	No	4		
4	50mm Ditto.	No	1		
	<u>uPVC Class 16 Pressure Water Supply Pipe Including Short Lengths, Cutting, Jointing, Laying In Trenches, Compacted Bedding Cradle And Fill Blanket As SABS 1200 LB (Flexible Pipe Bedding), Excavation, Risk Of Collapse, Keeping Excavations Free Of Water And Backfilling With Selected Material From The Excavations As SABS 1200 DB</u>				
5	32mm Pipe and laying in ground 500mm deep including excavation, bedding, backfilling, etc.	m	436		
6	63mm Ditto.	m	42		
	<u>uPVC Class 6 Pressure Water Supply Pipe Including Short Lengths, Cutting, Jointing, Laying In Trenches, Compacted Bedding Cradle And Fill Blanket As SABS 1200 LB (Flexible Pipe Bedding), Excavation, Risk Of Collapse, Keeping Excavations Free Of Water And Backfilling With Selected Material From The Excavations As SABS 1200 DB</u>				
7	63mm Pipe and laying in ground 500mm deep including excavation, bedding, backfilling, etc.	m	20		
	<u>Extra For uPVC</u>				
8	32mm End cap.	No	2		
9	32mm Bend 90 degrees.	No	21		
10	32mm Tee.	No	14		
	<u>Sundries</u>				
11	Cement concrete (15MPa) thrust block (approximately 0,05 cubic metres) at bends, etc., including casing.	No	10		
12	Imported Sabunga filling as backfill to pipe trenches and compact to 93% modified AASHTO.	m3	10		
Carried To Trade Summary				R	
Bill No. 15 Plumbing & Drainage (Provisional)					

Class 2 Medium Copper Pipes Including Short Lengths, Cutting, Jointing And Holderbats

1	15mm Pipe and fixing to walls, floors, in roofs, soffit of concrete slab, in chases (including chases and making good), in concrete, etc.	m	70
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2	22mm Ditto.	m	30
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Extra For Conex Brass Compression Type Fittings

3	15mm Fittings.	No	65
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4	22mm Fittings.	No	12
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Extra For Copcal Capillary Type Fittings With Soldered Joints

5	15mm Fittings.	No	21
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6	22mm Fittings.	No	4
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Taps, valves, etc.

Brass Fittings Including Couplings To Galvanised Iron

7	32mm Check valves and In-line strainers as Cobra code:1022-32 or other equal approved .	No	23
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8	50mm Ditto but code:1022-50 or other equal approved.	No	1
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9	15mm Stopcock as Cobra code: 131 or other equal approved.	No	2
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10	35mm Fullway gate valve as Cobra code: 1003/125 or other equal approved .	No	21
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11	50mm Ditto but code: 1006-125-50 or other equal approved.	No	2
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Brass Fittings Including Couplings To Copper

12	15mm Bibtap as Cobra code:100-15 or other equal approved.	No	6
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Chromium Plated Brass Fittings Including Couplings To Copper

13	15mm Extension piece with detachable wall flange as Cobra code: 059 or other equal approved.	No	3
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14	15mm Pillar tap as Cobra Star code: 111-15 or other equal approved.	No	4
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Carried To Trade Summary

Bill No. 15
Plumbing & Drainage (Provisional)

R

CONSTRUCTION OF NEW ECDC AT MAMPELAZWE JSS
PROJECT NO.: DOEEC/12/2023/2024

1	15mm One hole sink mixer with overarm swivel outlet and mounting kit with flexible inlets as Cobra Capstan code: CS 215/044 or other equal approved.	No	1	
2	15mm Elbow action pillar tap as Cobra code: 503-21B or other equal approved.	No	2	
3	15mm Stopcock as Cobra Star code: 136 or other equal approved.	No	2	
<u>Lagging</u>				
4	Heavy brown paper loosely wrapped around 15mm pipe as sheath for expansion.	m	70	
5	Thermaflex or other equal approved preformed polyethylene foam lagging or similar approved insulation wrapped around 15mm pipe and fittings.	m	20	
<u>Sundries</u>				
6	Extra over excavation in earth as described for pipe trenches, chambers, etc., for excavation in soft rock.	m3	14	
7	Ditto, but in hard rock.	m3	7	
8	Extra over all excavations for pipe trenches, etc for carting away from the site all surplus material from the excavations (measured net - no allowance for bulking).	m3	138	
9	50mm Thick precast concrete rectangular gate valve box size 645 x 400mm x 600mm deep internally, including 670 x 424mm polymer cover, box to be placed on 150mm thick 20MPa concrete base projecting 75mm all round, including earthworks etc.	No	1	
10	40mm Elster Kent Helix H4000 or other equal approved water meter and joints to uPVC pipe.	No	1	
11	Ditto but to galvanised pipe.	No	1	
12	50mm 0-1000 KPa glycerin filled pressure gauge with 100mm diameter face and joints to galvanised pipe.	No	1	
13	Vent-O-Vent 050 RC 2500 50mm or other equal approved double acting air valve and joints to galvanised pipe.	No	1	
Carried To Trade Summary				R
Bill No. 15 Plumbing & Drainage (Provisional)				

<u>Hot Water Cylinders, Heat Pumps, Etc</u>		
1	Kwikot Kwiksol or other equal approved indirect close coupled and split system thermosyphon solar water heating system with one 2000 x 1000 x 80mm high flat solar panel collector code SOL-PANEL-2 including 150 Litre SOL-150-IND round solar water heater installed in roof space, 400kPa Kwikot Multi pressure control and expansion relief valve code KHN3.214, 20mm draincock, two Kwikot vacuum breakers, code KHN4.200CX, 7 day digital geyser timer, all necessary brackets, copper pipes, fittings and lagging (overflow pipe and geyser tray elsewhere measured).	No 1
2	Kwikot Kwiktray code GSTP-1650 or other equal approved to suit 150 litre horizontal geyser and fix in position.	No 1
3	40mm PVC overflow and fixing to falls to roof timbers.	m 10
4	Extra for 40mm bend.	No 1
5	38 x 114mm Sawn Pine bearers.	m 8
6	Hole through roof sheeting for copper water pipe not exceeding 50mm diameter and flash and seal all around.	No 1
<u>FIRE SERVICE</u>		
7	5 Kg CO2 type fire extinguisher complete with bracket and meranti board, fixed to wall with expanding bolts and including mortices in brickwork.	No 1
8	4,5 Kg dry chemical type fire extinguisher complete with bracket and meranti board, fixed to wall with expanding bolts and including mortices in brickwork.	No 1
<u>TESTING</u>		
9	Allow for testing all sewer drains, sanitary plumbing, water supplies and fire appliances and installations to the satisfaction of the Architect and to Municipal requirements and supply all necessary compliance certificates. All defective work is to be taken out and replaced at the Contractor's expense.	Item
<u>BUILDER'S WORK TO PLUMBER</u>		
<u>Cut Hole For Pipe Not Exceeding 110mm Diameter And Make Good Through</u>		
10	Face brick wall.	No 6
Carried To Trade Summary		
Bill No. 15 Plumbing & Drainage (Provisional)		

1	Existing one brick wall.	No	3		
<u>PAINTING</u>					
<u>(CPAP Work Group No. 152 Unless Otherwise Stated)</u>					
<u>Prepare And Apply One Coat Primer, One Undercoat And One Coat Enamel On Copper Surfaces</u>					
2	On pipe not exceeding 300mm girth.	m	20		
<u>Prepare And Apply One PVC Primer, One Undercoat And One Coat Enamel On PVC Surfaces</u>					
3	On pipe not exceeding 300mm girth.	m	10		
4	On pipe exceeding 300mm girth.	m2	7		
Carried To Trade Summary					
Bill No. 15 Plumbing & Drainage (Provisional)				R	

Bill No. 15

Plumbing & Drainage (Provisional)

Trade Summary

Total Brought Forward From Page No.

Page
No

Amount

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

Carried To Final Summary

R

Bill No. 15

Plumbing & Drainage (Provisional)

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL NO 17MECHANICAL INSTALLATION</u> <u>(PROVISIONAL)(CPAP Work Group No. 170 Unless</u> <u>Otherwise Stated)</u> <u>PREAMBLES</u> For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used. <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary Products In Descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <u>Regulations</u> Gas Installation shall comply with Pressure equipment regulations: 2009 as per the SANS 10087-1-2013 Code of practice.The installation shall be carried out by qualified personnel under the supervision of an Industrial L.P. Gas Installer.Proof of registration as an authorised Industrial L.P. Gas Installer shall be provided prior to commencement of site work.A Certificate of Conformity for Gas Installations: Occupational Health and Safety Act, 1993 Regulation 17(3) of the Pressure Equipment Regulations, 2009 shall be issued on completion. <u>Guarantee</u> Guarantee the efficient and safe working of the whole installation for 12 months after hand over of the completed building to the Department Of Roads & Public Works. ----- <u>LP GAS INSTALLATION</u>			
	Carried To Trade Summary		R	
	Bill No. 16 Mechanical Installation (Provisional)			

	<u>Copper Pipes (SANS 460/2) Including Couplings In Running Lengths Including Painting, Colour Coding And Marking Of Pipes And Fittings</u>				
1	15mm Pipe and fixing to walls, floors, soffit of concrete slab, etc.	m	10		
	<u>Extra For Capillary Pipe Fittings (SANS 1067-2)</u>				
2	15mm Pipe saddles.	No	15		
3	15mm Fittings.	No	10		
4	15mm Isolation valves and connectors.	No	3		
	<u>Gas Cylinders</u>				
5	48Kg LP Gas cylinders.	No	2		
6	Hot dipped galvanised gas cage to store two 48Kg LP Gas cylinders including 40mm corrosion proof class 5 padlocks, cage bolted to concrete floor.	No	1		
	<u>Extra For Fittings</u>				
7	LP Gas regulators.	No	1		
8	Double one manual change over switch with pig tails and cylinder mid rail with chains.	No	1		
	<u>Equipment</u>				
9	Four burner boiling table size 2000 x 500 x 700mm high.	No	1		
	<u>Signage</u>				
10	Provide signage as per SANS 10087 and SANS 10400, complete.		Item		
	<u>Testing And Commissioning</u>				
11	Allow for the testing of the complete installation and issue a certificate of compliance that the installation has been tested and complies with SANS 10087.		Item		
12	Allow for training and for required maintenance for a 12 months period after practical completion including a final test reading before the end of the period.		Item		
	Carried To Trade Summary			R	
	Bill No. 16 Mechanical Installation (Provisional)				

Bill No. 16

Mechanical Installation (Provisional)

Trade Summary

Page
No

Amount

Total Brought Forward From Page No.

115

116

Carried To Final Summary

R

Bill No. 16
Mechanical Installation (Provisional)

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL No. 18GLAZING(CPAP Work Group No. 150 Unless Otherwise Stated)</u> <u>PREAMBLES</u> For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used. <u>SUPPLEMENTARY PREAMBLES</u> <u>Preambles</u> The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section. <u>Proprietary Products In Descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <u>Float glass</u> The term "float glass" is used for monolithic annealed glass. <u>Laminated glass</u> Laminated glass to have polyvinyl butyral (PVB) interlayer(s). ----- <u>SUNDRIES</u> <u>4mm Float Glass Silver Backed Mirror With Polished Edges All Around</u>			
1	Mirror size 400 x 600mm four times holed for and screwed with chromium plated two piece cover headed screws to and including hardwood plugs in wall.	No	3	
	Carried To Final Summary			R
	Bill No. 17 Glazing			

Item No		Quantity	Rate	Amount
<u>BILL No. 19PAINTWORK(CPAP Work Group No. 152 Unless Otherwise Stated)</u>				
<u>PREAMBLES</u>				
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
<u>Proprietary Products In Descriptions</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<u>Descriptions</u>				
All concrete surfaces are smooth unless otherwise described.				
All surfaces of walls are internal unless otherwise described.				
All plaster surfaces are smooth (floated) unless otherwise described.				

<u>PAINT ON PLASTER, FIBRE REINFORCED CEMENT, ETC</u>				
<u>Prepare And Apply One Coat Primer And Two Coats Interior Quality PVA Emulsion On Internal</u>				
1	Plastered walls.	m2	173	
Carried To Trade Summary				R
Bill No. 18 Paintwork				

<u>Prepare And Apply One Coat Primer And Two Coats Semi-Gloss Interior Quality PVA Emulsion On Internal</u>			
1	Gypsum board ceilings including priming cover fillets, cornices and nail heads.	m2	85
<u>Prepare And Apply One Coat Sealer/Undercoat And Two Coats Interior Quality PVA Emulsion On Internal</u>			
2	Fibre cement board ceilings including priming cover fillets, cornices and nail heads.	m2	8
3	Fibre cement cills not exceeding 300mm girth.	m	16
<u>Prepare And Apply One Coat Primer And Two Coats Exterior Quality PVA Emulsion On External</u>			
4	Plastered walls.	m2	290
5	Plastered ceilings and beams.	m2	3
6	Plastered columns and beams.	m2	20
7	Plastered cills.	m2	6
<u>Prepare And Apply One Coat Sealer/Undercoat And Two Coats Exterior Quality PVA Emulsion On External</u>			
8	Fibre cement board ceilings including priming cover fillets, cornices and nail heads.	m2	1
9	Fibre cement fascia and bargeboard.	m2	41
<u>Prepare And Apply One Coat Primer, One Undercoat And Two Coats Interior Quality Enamel On Internal</u>			
10	Plastered walls.	m2	124
11	Plastered ceilings and beams.	m2	4
12	Plastered columns and beams.	m2	1
13	Fibre cement board ceilings including priming cover fillets, cornices and nail heads.	m2	22
<u>PREPARATION AND FINISH TO WORKSHOP FLOOR</u>			
Carried To Trade Summary			R
Bill No. 18			
Paintwork			

<u>Two Coats Abecote 437 Or Other Equal Approved Water Dispersed Epoxy Paint At 9m2/Litre</u>			
1	On screeded floor.	m2	4
2	On wall as skirting 100mm high.	m	8
<u>PAINT ON METAL</u>			
<u>Prepare And Apply One Coat Bituminous Paint On</u>			
3	Backs of pressed steel door linings.	m2	2
<u>Remove All Traces Of Protective Coating From Galvanised Surfaces With Galvanised Iron Cleaner, Prepare And Apply One Coat Galvanised Iron Primer, One Undercoat And Two Coats Enamel On</u>			
4	Steel doors.	m2	4
5	Steel door frames.	m2	2
6	Steel grilles, gates, burglarproof screens, balustrades, etc. (measured on flat over both sides).	m2	24
7	Steel rails, posts, balustrading, etc., exceeding 300mm girth.	m2	2
8	Steel rails, posts, balustrading, etc., not exceeding 300mm girth.	m	16
<u>PAINT ON WOOD</u>			
<u>Prime Or Oil</u>			
9	Backs of frames or linings not exceeding 300mm girth.	m	28
<u>Prepare And Apply Two Coats Carbolinium Wood Preservative On</u>			
10	Wall plate.	m2	21
11	Water tank flooring.	m2	40
<u>Prepare And Apply Two Coats Interior Quality Clear Eggshell Polyurethane Varnish On</u>			
12	Skirtings, cornices or rails not exceeding 300mm girth.	m	85
Carried To Trade Summary			R
Bill No. 18			
Paintwork			

<u>Prepare, Stop And Apply One Coat Pink Wood Primer, One Undercoat And Two Coats Enamel On</u>		
1	Doors.	m2 21
2	Frames and linings.	m2 7
3	Exposed timbers at eaves and verges.	m2 89
<u>SIGNWRITING</u>		
<u>Etching primer and two coats yellow trafficable reflective road marking paint on concrete</u>		
4	Sign to read "Steps ahead", 250mm high letters in "Arial" font, as per drawing 594 bound to the back of these Bills of Quantities.	No 1
5	Rectangular sign size 2100 x 800mm made up of lines 100mm wide in chevron pattern, as per drawing 594 bound to the back of these Bills of Quantities.	No 1
Carried To Trade Summary		
Bill No. 18 Paintwork		

Bill No. 18

Paintwork

Trade Summary

Total Brought Forward From Page No.

Page
No

Amount

119

120

121

122

Carried To Final Summary

R

Bill No. 18
Paintwork

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 20EXTERNAL WORKS (PROVISIONAL)</u>				
<u>PREAMBLES</u>				
For Preambles refer to The documents "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" and "Construction Works: Specifications: General Specification (PW371-B) Edition 2.0"and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
<u>Proprietary Products In Descriptions</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				

<u>SITE EXCAVATIONS</u>				
<u>EARTHWORKS(CPAP Work Group No. 104 Unless Otherwise Stated)</u>				
<u>Demolition and removal of building and other structures</u>				
1	Desludge pit latrines.	Item		
2	Cart away re-bar and builders rubble.	Item		
<u>De-watering of seepage water and water from other subterranean sources in excavations</u>				
3	Provide pump with minimum 10litre/hour capacity at 1m head, including maintenance and removal.	No	1	
4	Provide necessary hoses for the above including couplings etc.	m	20	
5	Allow for pumping (one pump).	Hrs	4.00	
Carried To Trade Summary				R
Bill No. 19 External Works (Provisional)				

<u>Site Clearance</u>					
1	Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc., that may be encountered and roughly level site.	m2	1 234		
2	Excavate in earth average 150mm deep over site to remove topsoil and deposit in spoil heaps on site.	m3	270		
<u>Excavations, Filling, Etc As SANS 1200 DA : Earthworks (Small Works)</u>					
3	Soft excavation to open face over site to reduce levels.	m3	606		
4	Soft excavation to open face over site to reduce levels, including depositing in layers not exceeding 150mm thick, watering and consolidating spoil to 93% modified AASHTO density to platforms, etc. including compaction tests.	m3	246		
5	Extra over soft excavation for intermediate excavation.	m3	30		
6	Ditto, but for hard rock excavation.	m3	15		
<u>Extra Over All Excavations For Carting Away Of</u>					
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	696		
<u>Keeping Excavations Free Of Water</u>					
8	Allow for keeping excavations free from water.		Item		
<u>Earth Filling Selected And Supplied By The Contractor, Deposited In Layers Not Exceeding 150mm Thick, Watered And Consolidated</u>					
9	G5 earth filling to platforms, etc. to 95% modified AASHTO density including compaction density tests.	m3	110		
10	Extra over earth filling for stabilising with 3% cement by volume.	m3	60		
<u>Scarify, Mix And Consolidate Top 150mm Of Subgrade</u>					
11	To platforms to 98% modified AASHTO density.	m2	1 200		
Carried To Trade Summary				R	
Bill No. 19 External Works (Provisional)					

**Prescribed Density Tests As Check On Contractors Tests
Included In Filling Above**

1	Modified AASHTO density test and deliver the results to the Architect within 24 hours of the tests being completed.	No	6
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Topsoiling And Grassing

2	Topsoil filling, selected by the Contractor from spoil heaps on site, cleaned, dried, spread and levelled in 150mm thick layer on planting areas over site.	m3	140
3	Prepare topsoil and plant sods or rolls of local kikuyu grass, water, fertilise, weed, roll and mow as required until rooted into topsoil.	m2	220

PAVINGS

EARTHWORKS(CPAP Work Group No. 104 Unless Otherwise Stated)

Excavations, Etc

4	Excavate in earth to reduce levels under pavings not exceeding 2000mm deep.	m3	53
5	Extra over bulk excavations in earth for excavation in soft rock.	m3	5
6	Ditto, but in hard rock.	m3	3
7	Extra over all excavations for carting away from the site all surplus excavated material.	m3	53
8	Allow for keeping excavations free from water.		Item

Layerworks, Etc Including Compaction Density Tests

9	G7 type material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density under pavings.	m3	32
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Coarse River Sand Filling Supplied By The Contractor In

10	60mm Thick blinding layer under floors, etc.	m3	6
11	Scarify, mix and consolidate top 150mm of subgrade to 98% modified AASHTO density.	m2	236

Carried To Trade Summary

R

Bill No. 19
External Works (Provisional)

<u>Prescribed Density Tests As Check On Contractors Tests Included In Layerworks Above</u>					
1	Modified AASHTO density test and deliver the results to the Architect within 24 hours of the tests being completed.	No	1		
<u>(End Of CPAP Work Group No. 104)</u>					
<u>CONCRETE(CPAP Work Group No. 110 Unless Otherwise Stated)</u>					
2	Set of three concrete test cubes size 150 x 150 x 150mm overall including testing (Provisional).	Sets	2		
<u>Concrete</u>					
3	Cement concrete (25MPa) in apron paving, walkways, etc. cast in panels not exceeding 5m ² .	m ³	9		
4	Extra over last for forming thickened footing under size 125 x 100mm including additional earthworks, etc.	m	79		
5	Cement concrete (20MPa) in stormwater channel cast in panels not exceeding 2.7m ² .	m ³	15		
<u>Concrete Sundries</u>					
6	Float top of concrete to falls with a wood float and finish with a brushed non-skid surface whilst concrete is still green with the addition of 2.1 sand and cement as necessary.	m ²	101		
7	Float top of concrete v-shaped stormwater channel to falls with a wood float whilst the concrete is still green with the addition of 2.1 sand and cement as necessary.	m ²	133		
8	Round river pebbles (50mm diameter) set into top of concrete surface bed.	m ²	3		
<u>(End Of CPAP Work Group No. 110)</u>					
<u>FORMWORK(CPAP Work Group No. 111 Unless Otherwise Stated)</u>					
<u>Rough Formwork To</u>					
9	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	322		
Carried To Trade Summary				R	
Bill No. 19 External Works (Provisional)					

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Clean, Prime, Caulk, Tool And Smooth With Abe Flexothane 1H Elastomeric Or Other Equal Approved One Part Polyurethane Or Other Equal Approved Sealant Applied With A Pressure Caulking Gun

1	In 4 x 50mm deep saw cut in top surfaces of concrete including backing cord.	m	15
2	In 10 x 15mm deep joint on top surfaces of concrete floor including raking out expansion joint filler.	m	141

(End Of CPAP Work Group No. 120)

BOUNDARY, SCREEN WALLS, WATER TANK BASES, ETC

EARTHWORKS(CPAP Work Group No. 104 Unless Otherwise Stated)

3	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	5
4	Excavate in earth for bases not exceeding 2000mm deep.	m3	21
5	Extra over excavation in earth to bases and trenches for excavation in soft rock.	m3	3
6	Ditto, but in hard rock.	m3	1
7	Extra over all excavations for carting away from the site all surplus excavated material.	m3	21
8	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	84
9	Allow for keeping excavations free from water.		Item
10	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated as backfilling to trenches, bases, etc.	m3	5
11	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	31

Termite Proofing Treatment Of Chlordane Or Aldrin Type To

12	Surfaces of ground under floors, etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming.	m2	31
13	Bottoms and sides of trenches, bases, etc.	m2	23

Carried To Trade Summary

Bill No. 19
External Works (Provisional)

R

(End Of CPAP Work Group No. 104)

CONCRETE(CPAP Work Group No. 110 Unless Otherwise Stated)

1	Set of three concrete test cubes size 150 x 150 x 150mm overall including testing (Provisional).	Sets	1
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Concrete

2	Reinforced cement concrete (20MPa) in filling to cavity of walling.	m3	5
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3	Reinforced cement concrete (25MPa) in water tank base.	m3	2
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Concrete Cast Against Excavated Surfaces

4	Cement concrete (15MPa) in footings.	m3	1
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5	Cement concrete (20MPa) in bases.	m3	2
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6	Reinforced cement concrete (25MPa) in bases.	m3	7
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Sundries

7	Float top of concrete, to falls, with a wood float and finish with a brushed non-skid surface whilst concrete is still green with the addition of 2.1 sand and cement as necessary.	m2	24
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(End Of CPAP Work Group No. 110)

FORMWORK(CPAP Work Group No. 111 Unless Otherwise Stated)

Rough Formwork To

8	Edge, risers, ends and reveals not exceeding 300mm high or wide.	m	39
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(End Of CPAP Work Group No. 111)

REINFORCEMENT(CPAP Work Group No. 114 Unless Otherwise Stated)

High Tensile Steel Bar Reinforcement To Structural Concrete Work

9	10mm Diameter bars.	kg	23
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10	12mm Diameter bars.	kg	32
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Carried To Trade Summary

Bill No. 19
External Works (Provisional)

R

1	16mm Diameter bars.	kg	37	
<u>Fabric Reinforcement To Concrete Work</u>				
2	High tensile steel mesh Ref. 245 to concrete surface beds, slabs, etc.	m2	86	
<u>(End Of CPAP Work Group No. 114)</u>				
<u>PRECAST CONCRETE(CPAP Work Group No. 112 Unless Otherwise Stated)</u>				
<u>Precast Vibrated Cement Concrete (20MPa) Finished Smooth From The Mould On Exposed Surfaces</u>				
3	Coping size 400 x 400 x 150mm thick overall, splayed on top to 100mm thick all round, set projecting on 330 x 330mm brick pier with drip grooves all round on soffits and bedded and jointed in 3.1 cement mortar.	No	5	
<u>(End Of CPAP Work Group No. 112)</u>				
<u>BRICKWORK(CPAP Work Group No. 116 Unless Otherwise Stated)</u>				
<u>Brickwork of NFX bricks (14 MPa Nominal Compressive Strength) In Class II Mortar</u>				
4	Half brick wall in hollow piers.	m2	13	
5	One brick wall.	m2	19	
6	330mm Cavity wall in two half brick thicknesses including wire ties.	m2	39	
<u>Reinforcement</u>				
7	Galvanised brick reinforcement 85mm wide.	m	37	
8	Galvanised brick reinforcement 155mm wide.	m	113	
<u>"Corobrick Golden Wheat Travertine" Or Other Equal Approved Face Bricks Pointed With Ruled-In Vertical And Horizontal Joints</u>				
9	Extra over brickwork for face brickwork.	m2	39	
<u>(End Of CPAP Work Group No. 116)</u>				
<u>DAMP PROOFING TO FLOORS (CPAP Work Group No. 120 Unless Otherwise Stated)</u>				
Carried To Trade Summary				
Bill No. 19 External Works (Provisional)				R

	<u>One Layer 250 Micron Waterproof Sheeting</u>			
1	Under surface beds.	m2	24	
	<u>(End Of CPAP Work Group No. 120)</u>			
	<u>IRONMONGERY(CPAP Work Group No. 132 Unless Otherwise Stated)</u>			
2	50mm Union or other equal approved padlock keyed alike code: St Mk 1 UN335031000000.	No	1	
	<u>(End Of CPAP Work Group No. 132)</u>			
	<u>METALWORK(CPAP Work Group No 136 Unless Otherwise Stated)</u>			
	<u>The Following In Galvanised Mild Steel Framed And Welded Grille Gates Including All Hinges, Barrel And Padbolts, Lockbox, Housing For Bolt Of Lock, Welding, Cutting, Drilling, Grinding Smooth, Screwing, Bolting, Etc, Touching Up With Cold Galvanising And Fixing Complete In Position All As Attached Drawings</u>			
3	G01 comprising double gate and frame, size 1760 x 1850mm high overall.	No	1	
	<u>(End Of CPAP Work Group No. 136)</u>			
	<u>PLASTERING(CPAP Work Group No. 142 Unless Otherwise Stated)</u>			
	<u>4:1 Cement Plaster On Brickwork On</u>			
4	Walls.	m2	27	
5	Projecting and isolated piers.	m2	13	
6	Narrow widths.	m2	1	
	<u>(End Of CPAP Work Group No. 142)</u>			
	<u>PAINTWORK(CPAP Work Group No. 152 Unless Otherwise Stated)</u>			
	<u>Prepare And Apply One Coat Primer And Two Coats Exterior Quality PVA Emulsion On</u>			
7	Plastered walls.	m2	28	
	Carried To Trade Summary			
	Bill No. 19			
	External Works (Provisional)			

1	Plastered piers.	m2	13	
2	Precast concrete coping.	m2	2	
<u>Remove All Traces Of Protective Coating From Galvanised Surfaces With Galvanised Iron Cleaner, Prepare And Apply One Coat Galvanised Iron Primer, One Undercoat And Two Coats High Gloss Enamel On</u>				
3	Steel gates (measured on flat over both sides).	m2	7	
<u>(End Of CPAP Work Group No. 152)</u>				
<u>SECURITY FENCING AND GATES</u>				
<u>EARTHWORKS(CPAP Work Group No. 104 Unless Otherwise Stated)</u>				
<u>Demolitions</u>				
4	Take down and remove 1800mm high fence formed of weldmesh and steel posts at approximately 3000mm centres including gates.	m	82	
<u>Site Clearance, Earthworks, Etc</u>				
5	Allow for clearing site for the width of 1000mm where fencing runs are to be erected including removing trees, shrubs etc. not exceeding 200mm girth, grubbing up roots and roughly levelling	m	190	
<u>(End Of CPAP Work Group No. 104)</u>				
<u>METALWORK(CPAP Work Group No 136 Unless Otherwise Stated)</u>				
<u>The Following In Galvanised Mild Steel Framed And Welded Grille Gates Including All Hinges, Barrel And Padbolts, Lockbox, Housing For Bolt Of Lock, Welding, Cutting, Drilling, Grinding Smooth, Screwing, Bolting, Etc, Touching Up With Cold Galvanising And Fixing Complete In Position All As Attached Drawing No:600 Bound To The Back Of These Bills Of Quantities</u>				
6	G01 comprising double gate and frame, size 1760 x 1850mm high overall.	No	1	
Carried To Trade Summary				R
Bill No. 19				
External Works (Provisional)				

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CARPENTRY & JOINERY(CPAP Work Group No. 126 Unless Otherwise Stated)

1	Timber Jungle Gym (tanalith treated) with two raised platforms, double platform size 2000 x 1000 x 1500mm high, single platform with timber roof size 1000 x 1000 x 1500mm high with wooden hand railings on three sides, including nylon commando net 1000mm wide, v-net bridge 1800mm long, 3000mm glass fibre slide fixed to platform, with four tyre swings secured with suitable thickness galvanized chain and eye bolt system, with pull up ramp and monkey bars, installed complete by an approved manufacturer.	No	1
2	600mm Diameter reinforced cement concrete stormwater pipes as pipe tunnel.	m	4

(End Of CPAP Work Group No. 126)

STORMWATER DRAINAGE(CPAP Work Group No. 146 Unless Otherwise Stated)

3	Excavate for and form combination stormwater v-channel size 2800mm wide x 500mm deep and berm average size 1500 x 500mm high constructed with material excavated from channel, including all compacting, shaping, grassing etc.	m	10
4	Excavate for and form 500mm wide x 1000mm deep cut-off drain, fill with 19mm stone aggregate with Bidum A4 geotextile filter fabric wrapped all round and form 500 x 250mm high half round berm constructed with material excavated from channel including all compacting, shaping, carting away, etc	m	10
5	100mm Thick (20MPa) spreader 1500mm long and average 1200mm wide with nine concrete bricks cast in as brick-on-end diffusers in three rows including floating off concrete to a smooth finish, earthworks, formwork, etc.	No	1
6	1000 x 2500 x 1000mm Deep scour protection comprising small and large boulders set with top flush with ground level including all earthworks, etc.	No	1

(End Of CPAP Work Group No. 146)

Carried To Trade Summary

R

Bill No. 19
External Works (Provisional)

Bill No. 19

External Works (Provisional)

Trade Summary

Total Brought Forward From Page No.

Page
No

Amount

124
125
126
127
128
129
130
131
132
133
134
135

Carried To Final Summary

R

Bill No. 19
External Works (Provisional)

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 21PROVISIONAL SUMS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances.			
Prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned.Provisional sums are for material and equipment supplied and installed complete by firms of specialists.			
<u>Profit</u>			
Where stated, the contractor may allow for profit if required.			
<u>General Attendance On Nominated/Selected Subcontractors</u>			
The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
1	The services as set out in clause B9.1 of the Preliminaries.		
2	Making good in all trades and cleaning down and removal of rubbish on completion.		
<u>Special Attendance On Nominated/Selected Subcontractors</u>			
Where stated special attendance will be described in detail in the Schedule for Variables in the Preliminaries for the services as set out in clause B9.2.			
<u>Builder's Work</u>			
Builder's work in connection with specialist services is given elsewhere in these bills of quantities.			

<u>DIRECT CONTRACT</u>			
Carried To Trade Summary			R
Bill No. 20 Provisional Sums			

SCHOOL FURNITURE				
1	Provide the sum of R 62 062.00 for School Furniture supplied and fixed complete.	Item		62 062.00
KITCHEN EQUIPMENT				
2	Provide the sum of R 20,000.00 for Kitchen Equipment supplied and fixed complete.	Item		20 000.00
COMMUNITY LIASON OFFICER				
3	Provide the amount of R 48,000.00 (Forty Eight Thousand Rands) for employment of Community Liaison Officer (R 6,000.00 per month for duration of contract).	Item		48 000.00
4	Allow for general attendance on ditto.	Item		
Carried To Trade Summary			R	
Bill No. 20				
Provisional Sums				

Bill No. 20

Provisional Sums

Trade Summary

Total Brought Forward From Page No.

Page
No

137

138

Amount

Carried To Final Summary

R

Bill No. 20
Provisional Sums

CONSTRUCTION OF NEW ECDC AT MAMPELAZWE JSS
PROJECT NO.: DOEEC/12/2023/2024

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CONSTRUCTION OF NEW ECDC AT MAMPELAZWE JSS
PROJECT NO.: DOEEC/12/2023/2024

FINAL SUMMARY					
Bill No		Page No		Amount	
1	Preliminaries	34			
2	Foundations (Provisional)	43			
3	Concrete, Formwork & Reinforcement	49			
4	Masonry	54			
5	Waterproofing	57			
6	Roof Coverings, Etc	61			
7	Carpentry & Joinery	70			
8	Ceiling & Partitions	73			
9	Floor Coverings, Etc	76			
10	Ironmongery	81			
11	Structural Steelwork (Provisional)	86			
12	Metalwork	93			
13	Plastering	96			
14	Tiling	97			
15	Plumbing & Drainage (Provisional)	114			
16	Mechanical Installation (Provisional)	117			
17	Glazing	118			
18	Paintwork	123			
19	External Works (Provisional)	136			
20	Provisional Sums	139			
21	Credit For Materials On Site	140			
Carried Forward			R		

Bill No	Page No	Amount
FINAL SUMMARY Brought Forward Part C2.2 Bills Of Quantities: Construction TOTAL OF BUILDING WORKS PART 2.2a Bills of Quantities: Electrical Installation Carried Forward From Summary: Electrical Installation VOLUME 3 CONTINGENCIES Provide the Sum of R 220,000.00 (Two Hundred and Twenty Thousand Rand) for Contingencies to be adjusted, used and paid as instructed and approved by the Client in terms of clauses 17, 31 and 32 of the Principal Building Agreement JBCC 4.1? TOTAL OF BUILDING WORKS AND CONTINGENCIES VAT at the rate of 15%	Item	R R R 240 000.00 R R R
CARRIED TO TENDER FORM		R

ELECTRICAL BOQ

Schedule 1 : Low Voltage Reticulation & Distribution

Schedule 1 : Low Voltage Reticulation & Distribution				Tender		
Item	Description	Unit	Qty	Rates		Nett Amount
				Supply	Install	
1	Low Voltage Reticulation & Distribution					
1.1	Low Voltage (600 / 1000 V) Cables Supply, delivery and installation of PVC PVC SWA ECC PVC type cables, with stranded copper conductors and earth continuity conductors (Installation rate to include for installation in wireways, trays, ducts, trenches, etc. and for the provision of flameproof labels) (excavations measured elsewhere)					
1.1.1	16 mm² x 4 core	m	30.00			
1.1.2	10 mm² x 2 core	m	80.00			
1.1.3	6 mm² x 2 core	m	30.00			
1.1.4	4 mm² x 2 core	m	10.00			
1.2	Low Voltage (600 / 1 000 V) Cable Terminations Supply, delivery and installation of cable terminations, including all fastening materials, glands, shrouds, lugs, insulating materials, etc.					
1.2.1	16 mm² x 4 core	m	2.00			
1.2.2	10 mm² x 2 core	m	2.00			
1.2.3	6 mm² x 2 core	m	2.00			
1.2.4	4 mm² x 2 core	m				Rate Only
1.3	Earth Spikes Supply, delivery and installation of earth spikes including all fastening materials, lugs, etc.					
1.3.1	1 800 mm x 16 mm diameter	no.	2.00			
1.4	Low Voltage Earthing					
1.4.1	Allow for bonding of the electrical installation	sum	1.00			
1.5	Electrical Distribution Boards Allow a provisional sum for the supply, delivery to site, installation of flush mounted unit, incl. fixing goods & lockable hinged doors, as specified in Project Specification and depicted on single line diagrams					
1.5.1	Main Electrical Distribution Boards	sum	1.00	45 000.00	5 625.00	50 625.00
1.5.2	Sub-electrical Distribution Board, SEDB-GR	sum	1.00	22 500.00	2 813.00	25 313.00
1.5.3	Allow for a "profit and attendance" mark-up on Items 1.5.1 to 1.5.3	%	1.00			
Total for Schedule carried forward					R	

Schedule 1 : Low Voltage Reticulation & Distribution

Schedule 1 : Low Voltage Reticulation & Distribution				Tender		
Item	Description	Unit	Qty	Rates		Nett Amount
				Supply	Install	
1	Low Voltage Reticulation & Distribution (continued)	Amount Brought Forward				Rate Only <

Schedule 1 : Low Voltage Reticulation & Distribution

Schedule 1 : Low Voltage Reticulation & Distribution				Tender		
Item	Description	Unit	Qty	Rates		Nett Amount
				Supply	Install	
1	Low Voltage Electrical Reticulation & Distribution (continued)	Amount Brought Forward				Rate Only
1.9	Cable Slabs and Warning Tape					
1.9.1	250 mm wide x 500 mm long concrete cable slabs, with 25 Mpa strength (placed perpendicular / across full width of trench e.g. covering all sleeves and / or cables)	no.				
1.9.2	Skull and Crossbones danger tape	m	120.00			
1.10	Sleeves / Ducts					
	Supply, delivery and installation of "Kabelflex" high density polyethylene (HDPE) ducts with double wall construction, corrugated, outer wall and smooth inner wall finish.					
1.10.1	110 mm diameter, complete with couplings	m	12.00			
1.10.2	110 mm diameter, preformed slow bend (45 degrees)	no.	1.00			
1.10.3	50 mm diameter conduit	m	12.00			
1.10.4	50 mm diameter, preformed 45 degree slow bend	no.	1.00			
Total for Schedule carried forward to Summary					R	

Schedule 2 : Electrical Equipment

Schedule 2 : Electrical Equipment				Tender		
Item	Description	Unit	Qty	Rates		Nett Amount
				Supply	Install	
2	Electrical Equipment					
2.1	Telephone / Data Distribution Boards Supply, delivery to site, installation of flush mounted telephone / data distribution board, including all fixing goods, architrave, lockable hinged doors and soft timber backing board					
2.1.1	450 mm x 450 mm 150 mm	no.				Rate Only
2.2	Draw Trays Supply, delivery to site, installation of draw trays, complete with knockouts and covers					
2.2.1	150 mm x 150 mm x 50 mm	no.	2.00			
2.3	Ancillary Low Voltage Electrical Equipment Supply, delivery to site, installation of ancillary					
2.3.1	10 ampere photoelectric daylight switch	no.	2.00			
2.4	Switches Supply, delivery to site, installation of light switches, excluding outlet boxes, but including covers and surrounds, mounted to outlet boxes					
2.4.1	One lever, one way switch	no.	7.00			
2.4.2	One lever, two way switch	no.				Rate Only
2.4.3	Two lever, one way switch	no.				Rate Only
2.5	Luminaires Supply, delivery to site, installation of luminaires, either fixed to round conduit boxes cast into brickwork or conduit boxes supported to ceiling / roof structure or mounted in recessed ceiling grid, including all fixing materials and terminations					
2.5.1	Type 1	no.	11.00			
2.5.2	Type 2	no.	6.00			
2.5.3	Type A	no.	15.00			
2.5.4	Type B	no.	3.00			
2.6	Socket Outlets Supply, delivery to site, installation of socket outlets, excluding outlet boxes, but including covers and surrounds, mounted to outlet boxes, power skirting, flush floor ducting and / or under-screed ducting					
2.6.1	16 ampere, single	no.	4.00			
2.6.2	16 ampere, double	no.	7.00			
Total for Schedule carried forward					R	

Schedule 2 : Electrical Equipment

Schedule 2 : Electrical Equipment				Tender		
Item	Description	Unit	Qty	Rates		Nett Amount
				Supply	Install	
2	Electrical Equipment (continued)	Amount Brought Forward				
2.7	Accessories					
	Supply, delivery to site, installation of accessories to suit module grid plate type blank covers					
2.7.1	8 way 8 contact data socket (CAT 5), with shutter	no.				Rate Only
2.7.2	6 way 4 contact telephone socket, with shutter	no.				Rate Only
2.8	Sockets (plug-tops)					
	Supply, delivery to site, installation of sockets					
2.8.1	16 ampere	no.	2.00			
2.8.3	16 ampere with 45 degree shaved earth pin	no.				Rate Only
2.9	Earth Leakage Units					
	Supply, delivery to site, installation of moulded case earth leakage units, including wiring to busbars					
2.9.1	SA15A, single pole, 5kA, 30 mA, 60A	no.				Rate Only
2.10	Moulded Case Circuit Breakers					
	Supply, delivery to site, installation of moulded case circuit breakers, including wiring to busbars / main circuit breaker					
2.10.1	SF1-G3, single pole, 5kA, Curve 2, 10A	no.				Rate Only
2.10.2	SF1-G3, single pole, 5kA, Curve 2, 20A	no.				Rate Only
2.10.3	SF2-G0/G3, single pole & neutral, 5kA, Curve 2, 20A	no.				Rate Only
2.10.4	SF3-G3, triple pole, 5kA, Curve 2, 63A	no.	2.00			
2.11	Moulded Case Switch Disconnectors					
	Supply, delivery to site, installation of moulded case switch disconnectors, including wiring to busbars					
2.11.1	SF1-G0, single pole, 5kA, 60A	no.				Rate Only
2.11.2	SF2-G0, double pole, 5kA, 100A	no.				Rate Only
2.12	Isolators / Switched Interlock Isolators					
	Supply, delivery to site, installation of isolators, excluding outlet boxes, but including covers and surrounds, mounted to outlet boxes					
2.12.1	63 A, double pole & neutral & earth	no.	3.00			
	Supply, delivery to site, installation of switched interlock type isolators, excluding outlet boxes, but including base and "male" and "female" adaptors					
2.12.2	32 A, triple pole & neutral & earth (equipment)	no.	2.00			
Total for Schedule carried forward					R	

Schedule 2 : Electrical Equipment

Schedule 2 : Electrical Equipment				Tender		
Item	Description	Unit	Qty	Rates		Nett Amount
				Supply	Install	
2	Electrical Equipment (continued)	Amount Brought Forward				
2.13	PVC SANS Approved Conduit Supply, delivery to site, installation of conduit on surface, in ceiling void, chased into or cast into concrete works and / or brickwork, including bushes, locknuts, couplings, saddles, etc.					
2.13.1	20 mm diameter conduit	m	420.00			
2.13.2	25 mm diameter conduit	m	132.00			
2.13.3	32 mm diameter conduit	m	125.00			
2.14	PVC SANS Approved Conduit Accessories Supply, delivery to site, installation of conduit accessories on surface, or in ceiling void					
2.14.1	50 mm diameter conduit box for 20 mm conduit	no.	58.00			
2.14.2	50 mm diameter conduit box for 25 mm conduit	no.	7.00			
2.15	Galvanised SANS Approved Conduit Supply, delivery to site, installation of conduit on surface, in ceiling void, chased into or cast into concrete works and / or brickwork, including bushes, locknuts, couplings, saddles, etc.					
2.15.1	20 mm diameter conduit	m	24.00			
2.15.2	25 mm diameter conduit	m	11.00			
2.15.3	32 mm diameter conduit	m	3.00			
2.15.4	50 mm diameter conduit	m				Rate Only
2.16	Galvanised SANS Approved Conduit Accessories Supply, delivery to site, installation of conduit accessories on surface, or in ceiling void					
2.16.1	100 mm x 100 mm x 50 mm conduit box	no.	16.00			
2.16.2	100 mm x 50 mm x 50 mm conduit box	no.	7.00			
2.16.3	50 mm diameter conduit box for 20 mm conduit	no.	2.00			
2.16.4	50 mm diameter conduit box for 25 mm conduit	no.	1.00			
2.16.3	Extra over for painting conduit (black)	m	4.00			
2.16.6	Extra over for painting conduit accessories (black)	no.				
2.17	Insulated Wiring Supply, delivery to site, installation of PVC insulated, single core, stranded copper conductors, drawn into wireways, fixed surface or beneath plaster					
2.17.1	1.5 mm², for use as conductors	m	924.00			
2.17.2	2.5 mm², for use as conductors	m	290.00			
2.17.3	4.0 mm², for use as conductors	m	330.00			
2.17.4	1.5 mm², for use as earth	m	607.00			
2.17.5	2.5 mm², for use as earth	m	165.00			
Total for Schedule carried forward					R	

Schedule 2 : Electrical Equipment

Schedule 2 : Electrical Equipment				Tender		
Item	Description	Unit	Qty	Rates		Nett Amount
				Supply	Install	
2	Electrical Equipment (continued)	Amount Brought Forward				Rate Only
2.18	PVC Insulated Screened "Surfix" Wiring Supply, delivery to site, installation of screened "Surfix" wiring, with copper conductors and earth conductor, drawn into wireways, fixed surface or beneath plaster, including necessary glands					
2.18.1	2.5 mm ² solid live & 1.0 mm ² solid earth	m	61.00			
2.18.2	4.0 mm ² stranded live & 1.5 mm ² solid earth	m	41.00			
2.19	Power Skirting					
2.19.1	Supply, delivery and installation of power skirting (195 mm x 50 mm), including rigid and flexible covers, partitions, internal dividers, joint covers, accessory frames, cable retaining brackets, internal / external angles, T-junctions, fixing brackets, etc. (rate per metre) (outlets measured elsewhere)	m	6.00			
2.20	Wiring Duct and Accessories Supply, delivery to site, installation of galvanised wiring duct, including all fixing materials and covers (wiring duct and accessories to be painted matt black)					
	76.2 mm x 76.2 mm x 1.0 mm					
2.20.1	Duct, complete with PVC cover	m	30.00			
2.20.2	Pre-Galvanised cover	no.				
2.20.3	Splice (internal)	no.	10.00			
2.20.4	End cap	no.	14.00			
2.20.5	90 degree radiused int / ext elbow and cover	no.	2.00			
2.20.6	90 degree radiused horizontal elbow and cover	no.	2.00			
2.20.7	Horizontal Tee, radiused and cover	no.	1.00			
2.20.8	4-way Crossover, radiused and cover	no.	1.00			
2.20.9	DB outlet, radiused and cover	no.	7.00			
2.20.10	Hangers	no.	20.00			
2.20.11	Wiring Retainer	no.	30.00			
2.21	Miscellaneous Provide electrical connection to the following equipment (necessary materials measured elsewhere)					
2.21.1	Single phase equipment	no.	5.00			
2.21.2	School bell	no.	1.00			
2.22	Galvanised Draw-wire					
2.22.1	1 mm ² galvanised draw-wire	m			Rate Only	
Total for Schedule carried forward to Summary					R	

Schedule 3 : Provisional Sums and Contingency Sums

Schedule 3 : Provisional Sums and Contingency Sums				Tender		
Item	Description	Unit	Qty	Rates		Nett Amount
				Supply	Install	
3	Provisional Sums and Contingency Sums					
3.1	Provisional Sums These provisional sums may be utilised in full or in part. No expenditure will be allowed without the authority of the Consulting Electrical Engineer, in writing. These sums may be deleted in full or in part.					
3.1.1	Bulk Electricity Service Connection Allow a provisional sum for the Works associated with the provision of a "bulk electricity service connection"					
3.1.1.1	Bulk Electricity Service Connection	sum	1.00	275 000.00		275 000.00
3.1.1.2	Profit & Attendance mark-up on Item 3.1.1.1 (percentage tendered)	sum	1.00			
	Allow a provisional sum for the provision of a temporary electricity service connection to the Construction Site for use by all Contracting Parties and for the upgrading of the bulk electricity service	sum				
3.1.1.3	Temporary Electricity Service Connection	sum	1.00	24 500.00		24 500.00
3.1.1.4	Allow for a "profit and attendance" mark-up on Item 3.1.1.4		1.00			
3.1.2	Lightning Protection System Allow a provisional sum for the supply and installation of a lightning protection system by a Specialist Contractor					
3.1.2.1	Lightning Protection System	m²	290.00	155.00		44 950.00
3.1.2.2	Profit & Attendance mark-up on Item 3.1.2.1 (percentage tendered)	m²	290.00			
3.1.3	Access Control System Allow a provisional sum for the supply and installation of an access control system by a Specialist Contractor					
3.1.3.1	Access Control System	sum	1.00	52 000.00		52 000.00
3.1.3.2	Profit & Attendance mark-up on Item 3.1.3.1 (percentage tendered)	sum	1.00			
Total for Schedule carried forward to Summary					R	

Summary Page

Item	Description	Tender
1	Low Voltage Reticulation & Distribution	
2	Electrical Equipment	
3	Provisional Sums and Contingency Sums	
Sub-total		

INDEPENDENT DEVELOPMENT TRUST

C3 Scope of Work

1 DESCRIPTION OF THE WORKS

1.1 Employer's objectives

The employer's objective is to provide:

Provision of a single Grade R classroom and ablution blocks with playground amenities at Mampelazwe Junior Secondary School, Flagstaff (Taweni), O.R Tambo District.

1.2 Overview of the works

Construction of single Grade R classroom block (1 x Classroom, 1 x Offices, 1 x Sickbay, 1 x Store Rooms, Kitchen, Under Cover Play Area, VIP Toilet Block and Site Works generally comprise of the site clearance; bulk earthworks; covered and open walk ways; concrete aprons or storm water channels around building; site storm water drainage; rainwater tanks and tank stands on the ground and elevated tanks and stands; sand pit and jungle gym at Mampelazwe Junior Secondary School.

1.3 Location of the works

The designated site to be shown to the contractor is at MAMPELAZWE JUNIOR SECONDARY SCHOOL, FLAGSTAFF (TAWENI), O.R Tambo District, Eastern Cape.

Temporary works

To be communicated to the winning bidder before construction commences

2 DRAWINGS

The drawings used for setting up the Bills of Quantities are attached.

- **Architectural drawings**
- **Civil & Structural Engineers Drawings**

Three (3) sets to be provided to the successful Bidder at site hand over

3 PROCUREMENT

3.1 Preferential procurement procedures

The works shall be executed in accordance with the conditions attached to preferences granted in accordance with the preferencing schedule.

3.1.1 Requirements for the sourcing and engagement of labour.

3.1.1.1 Labour required for the execution of all labour intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.

3.1.1.2 The rate of pay set for this project is as follows:

Description	Daily wage for 8-hour work day (Minimum)	Important Note to Bidders
Unskilled labour	R 185-52	NB: Bidders are to check and verify rates used in the area during compulsory briefing or before submitting bid document.
Semi-skilled labour	R 231-20	
Skilled labour	R 251-76	
Supervisor	R 307-84	

- 3.1.1.3 Tasks established by the contractor must be such that:
- a) the average worker completes 5 tasks per week in 40 hours or less; and
 - b) the weakest worker completes 5 tasks per week in 55 hours or less.
- 3.1.1.4 The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of 3.1.1.3.
- 3.1.1.5 The Contractor shall, through all available community structures, inform the local community of the labour-intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:
- a) where the head of the household has less than a primary school education.
 - b) that have less than one full-time person earning an income.
 - c) where subsistence agriculture is the source of income.
 - d) those who are not in receipt of any social security pension income
- 3.1.1.6 The Contractor shall endeavor to ensure that the expenditure on the employment of temporary workers is in the following proportions:
- a) 25 % women.
 - b) 50% youth who are between the ages of 18 and 25; and
 - c) 2% on persons with disabilities.
- 3.1.2 Specific provisions pertaining to SANS 1914-5**
- 3.1.2.1 Definitions**
- 3.1.2.1.1 Targeted labour: Unemployed persons who are employed as local labour on the project.
- 3.1.2.2 Contract Participation Goal**
- 3.1.2.2.1 The minimum Contract Participation Goal applicable to the Contract is 30%.
- 3.1.2.2.2 The wages and allowances used to calculate the contract participation goal shall, with respect to both time-rated and task rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes. The Person / days will be calculated in accordance with Addendum F: Contract Person / Days Calculation Format.
- 3.1.2.3 Terms and conditions for the engagement of targeted labour**
- 3.1.2.3.1 Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts to be signed between the Contractor and workers will be in accordance with the pro-forma contract, attached as Addendum D.
- 3.1.2.3.2 Further to the provisions of clause 5.2 of SANS 1914-5, the Contractor will use the pro-forma attendance register, attached as Addendum E, to record the required information as per said clause.
- 3.1.2.4 Variations to the SANS 1914-5**

None

3.1.2.5 Training of targeted labour

- 3.1.2.5.1 The Employer will appoint a service provider that will provide training to the workers. The Contractor need not to provide for payment of said service provider.
- 3.1.2.5.2 Workers will receive 2 days training per every 22 working days for the duration of the Contract.
- 3.1.2.5.3 An allowance equal to 100% of the task rate or daily rate shall be paid by the Contractor to workers who attend training, in terms of 3.1.2.5.
- 3.1.2.5.4 Records pertaining to the attendance, progress and performance of trainees will be kept by the Contractor and made available to the Employer monthly. These records shall be attached to the monthly progress payment certificates to the Employer.
- 3.1.2.5.5 The Contractor shall do nothing to dissuade targeted labour from participating in training programmes.

3.2 Subcontracting

3.2.1 Scope of mandatory subcontract work

As per the mandatory sub-contracting clause, the Contractor must not sub-contract more than 30% of work to Domestic Sub-contractors.

The Contractor shall without delay enter into contracts with the Domestic Subcontractors as submitted on the returnable schedule and forward a copy of these agreements to the Principal Agent. The Contractor shall remain responsible for providing the subcontracted portion of the works as if the work had not been subcontracted.

The Contractor to take note of item 3.2.2 below

3.2.2 Preferred subcontractors / suppliers

3.2.3 Subcontracting procedures

See items 3.2.1 and 3.2.2 as well as Bid data

3.2.4 Attendance on subcontractors

Attendance to Domestic Sub-contractors as stated above should be priced under the relevant items in the Preliminaries section of the bills of quantities. Attendance to nominated sub-contractors should be priced under the relevant items in the Provisional Sums section of the bills of quantities.

4. MANAGEMENT

4.1 Recording of weather

The Contractor shall erect an effective rainfall gauge on the site and record the daily rainfall figures in a book. Such book shall be handed to the employer's representative for his signature no later than 12 days after rain that is considered to justify an extension of time occurs.

4.2 Unauthorized persons

The Contractor shall keep unauthorized persons from the works at all times. Under no circumstances may any person except guards be allowed to sleep on the building site.

4.3 Management meetings

The Employer's Representative and the Contractor shall hold meetings relating to the progress of the works at regular intervals and at other such times as may be necessary. The Contractor shall attend all site meetings and

shall ensure that all persons under his jurisdiction are notified timeously of all site meetings should the Employer's Representative require their attendance at such meetings.

The Contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site instruction book, a complete set of contract working drawings and a copy of the procurement document and make these available at all reasonable times to all persons concerned with the contract.

4.4 Forms for contract administration

The Contractor shall be required to submit an updated contractor monthly report during site meetings, which will be used by the consultant to update the client.

4.5 Payment certificates

The Contractor to ensure that the VAT invoice required with each certificate is delivered timeously. The date of the certificate will be that of the date when the certificate is received by the consultant.

The Contractor to ensure timeous submission of all required documentation for the expedient processing of payment certificates, as required by the client, eg BAS entity forms, company registration details, VAT clearance certificates, etc. The Contractor is responsible for such documentation submission.

4.6 Addenda

- 4.6.1 Occupational Health and Safety Regulations (*ADDENDUM A*)
- 4.6.2 Standard Occupational Health and Safety Specification (*ADDENDUM B*)
- 4.6.3 Environmental Management Plan (*ADDENDUM C*) (will be made available to the successful bidder)
- 4.6.4 Pro-forma contract between Contractor and Worker (*ADDENDUM D*)
- 4.6.5 Pro-forma Attendance Register (*ADDENDUM E*)
- 4.6.6 Contract Person / Days Calculation Format (*ADDENDUM F*)
- 4.6.7 Contractor monthly report format (see 4.4 above) also available in electronic format (*ADDENDUM G*)
- 4.6.8 Guidelines for the implementation of labour-intensive infrastructure projects under the Expanded Public Works Programme (*ADDENDUM H*) (available on the following website www.epwp.gov.za)
- 4.6.9 Drawings (*ADDENDUM I*)
- 4.6.10 IDT Addendum to the JBCC (*ADDENDUM J*)

INDEPENDENT DEVELOPMENT TRUST

C4 Site Information

SEE ATTACHED SITE MAP



Google Earth

Maxar Technologies AfriGIS (Pty) Ltd Airbus

100 m

Camera: 1,353 m 31°08'38"S 29°39'07"E 731 m

ADDENDUM A

Occupational Health and Safety Regulations

GOVERNMENT NOTICE
DEPARTMENT OF LABOUR

No. R.

7 February 2014

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

CONSTRUCTION REGULATIONS, 2014

The Minister of Labour has under section 43 of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), after consultation with the Advisory Council for Occupational Health and Safety, made the regulations in the Schedule.

ADDENDUM A

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
Regulation 3 of the Construction Regulations, 2014

NOTIFICATION OF CONSTRUCTION WORK

1.(a) Name and postal address of principal contractor:

(b) Name and tel. no of principal contractor's contact person:

2. Principal contractor's compensation registration number: _____

3.(a) Name and postal address of client:

(b) Name and tel no of client's contact person or agent:

4.(a) Name and postal address of designer(s) for the project:

(b) Name and tel. no of designer(s) contact person:

5. Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 6.(1). _____

6. Name/s of principal contractor's sub-ordinate supervisors on site appointed in terms of regulation 6.(2).

7. Exact physical address of the construction site or site office:

8. Nature of the construction work:

9. Expected commencement date: _____

10. Expected completion date: _____

11. Estimated maximum number of persons on the construction site.

12. Planned number of contractors on the construction site accountable to principal contractor:

13. Name(s) of contractors already chosen.

Principal Contractor

Date

Client

Date

- THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.
- **ALL PRINCIPAL CONTRACTORS** THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER PRINCIPAL CONTRACTOR ON THE SAME SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

ADDENDUM B

Occupational Health and Safety Specification

INDEPENDENT DEVELOPMENT TRUST

(Hereinafter referred to as the Employer)

OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

This specification shall be used in conjunction with all other applicable safety specifications, legislation and regulations in force at the time of the contract. Where unique site specifications are in force, those site specifications shall take precedence over this Specification.

IDT East London Office
Palm Square Business Park
Silverwood House, Bonza Bay Road
BEACON BAY, EAST LONDON
5200

Contact:

Name: Ms. N. Dyasi

Telephone: (043) 711 - 6000

ADDENDUM “A”

PRO-FORMA AGREEMENT IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY ACT 1993

PRO-FORMA AGREEMENT IN TERMS OF

OCCUPATIONAL HEALTH AND SAFETY ACT 1993 – SECTION 37 (2)

NEW CONSTRUCTION SAFETY REGULATIONS

The above-mentioned regulations were promulgated in the Govt. Gazette on Friday, 18 July 2014 under the Occupational Health & Safety Act (85 of 1993) and are now in force.

The Employer and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act 1993 (Act 85 of 1993, hereinafter referred to as the Act), that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:

- (a) The Contractor undertakes to acquaint the appropriate officials and employees of the Contractor with all the relevant provisions of the Act and the regulations promulgated in terms of the Act, and the Employer's Health and Safety Specifications included in the contract documents.
- (b) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and Regulations and the Employer's Health and Safety Specifications included in the contract documents will be complied with in all respects.
- (c) In relation to any work or activity performed by the Contractor, his workmen or any other person for whose acts or omissions the Contractor is responsible in terms of the Contract, the Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations and expressly absolves the Employer from itself being obliged to comply with any of the aforesaid duties, obligations and prohibitions.
- (d) The Contractor agrees that any duly authorised officials of the Employer shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the Contractor has complied with his undertakings as set out more fully in paragraphs (a) and (b) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or to inspect any appropriate records held by the Contractor.
- (e) The Contractor shall be obliged to report forthwith in writing to the Representative/Agent full details of any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and Regulations, pursuant to work performed in terms of this Contract.
- (f) Forward "safety meeting" minutes to the representative/Agent.

For the Employer: _____ Date: _____

Witnesses: 1) : _____ 2) _____

For the Contractor: _____ Date: _____

Witnesses: 1) : _____ 2) _____

ADDENDUM “B”

NOTIFICATION OF CONSTRUCTION WORK

NOTIFICATION OF CONSTRUCTION WORK
(Regulation 3 of the Construction Regulations, 2014)

1. CONTRACTOR

1.1 Name and postal address of Contractor :

1.2 Name and telephone number of Contractor's contact person :

1.3 Contractor's compensation registration number :

1.4 Name and telephone number of Contractor's Construction Supervisor :

1.5 Physical address of the construction site or site office:

1.5 Estimated number of persons on the construction site :

1.6 Estimated number of Subcontractors on the construction site accountable to the Contractor :

2. EMPLOYER

2.1 Name and postal address of Employer :

2.2 Name and telephone number of Employer's Principal Agent:

3. DESIGN CONSULTANTS

3.1 Name and postal address of design consultants:

3.1.1 Construction project managers/ Principal Agents:

BARTSCH ARCHITECTS
50 BALFOUR ROAD
VINCENT
EAST LONDON
5217
Contact: 043 727 0765

3.1.2 Architects:

BARTSCH ARCHITECTS
50 BALFOUR ROAD
VINCENT
EAST LONDON
5217
Contact: 043 727 0765

3.1.3 Quantity Surveyor:

MMPA QUANTITY SURVEYORS & PROJECT MANAGERS
14 BONZA BAY ROAD
BEACON BAY
EAST LONDON
5205
Contact: 043 721 0077

3.1.4 Structural engineer:

ZNM CONSULTING CIVIL & STRUCTURAL ENGINEERS
8A BONZA BAY ROAD
BEACON BAY
EAST LONDON
5205
Contact: 087 350 4035

3.1.4 Electrical engineer:

EVANS CONSULTING ENGINEERS
17 SURREY ROAD
VINCENT
EAST LONDON
5217
Contact: 043 721 3192

3.1.5 Civil engineer :
Agent's name:
Telephone:
Facsimile:
Address (physical):

3.1.6 Security engineer :

3.1.7 Other (if any) :

3.2 Name and telephone number of design consultant's contact person :

3.2.1 Construction project managers/ Principal Agent :

AS PER ABOVE 3.1 _____

3.2.2 Architects :

AS PER ABOVE 3.1 _____

3.2.3 Quantity Surveyor:

AS PER ABOVE 3.1 _____

3.2.4 Structural engineer :

AS PER ABOVE 3.1 _____

3.2.5 Electrical engineer :

AS PER ABOVE 3.1 _____

3.2.6 Mechanical engineer :

AS PER ABOVE 3.1 _____

3.2.7 Civil engineer :

AS PER ABOVE 3.1 _____

3.2.8 Security engineer :

3.2.9 Other (if any) _____

4. THE WORKS

Nature of the works:

Construction of single Grade R classroom block (1 x Classroom, 1 x Offices, 1 x Sickbay, 1 x Store Rooms, Kitchen, Under Cover Play Area, VIP Toilet Block and Site Works generally comprise of the site clearance; bulk earthworks; covered and open walk ways; concrete aprons or storm water channels around building; site storm water drainage; rainwater tanks and tank stands on the ground and elevated tanks and stands; sand pit and jungle gym at Mampelazwe Junior Secondary School.

Commencement date: _____

Completion date: _____

Contractor: _____ Date: _____

Employer: _____ Date: _____

THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.

ALL CONTRACTORS THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER CONTRACTOR ON THE SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

ADDENDUM C

Environmental Management Plan

TO BE PROVIDED BY THE SUCCESSFUL BIDDER

ADDENDUM I

Drawings

See attached

Addendum J

ADDENDUM J
