



CONSTRUCTION OF NEW ECD EDUCATIONAL FACILITIES

AT

COBOSI PRIMARY JUNIOR SCHOOL

FOR

THE DEPARTMENT OF EDUCATION

EMIS No. 200400085

P-No. P9007203

CONTRACT NO: CDC/329/24

BOOK 2 (THE RETURNABLES)

CLOSING DATE: 11 NOVEMBER 2024

CLOSING TIME: 12H00

NAME OF BIDDER:

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BOOK 2 – THE RETURNABLES

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SUMMARY FOR TENDER OPENING PURPOSES

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SUMMARY FOR TENDER OPENING PURPOSES

Coega Development Corporation (Pty) Ltd

HARRAWAY HOUSE,

12 PEARCE STREET,

BEREA,

EAST LONDON

Tender enquiries to: Ms. Z Mtanda

Email : tendersDoEec@coega.co.za

TENDER OFFER BY:

Name of Bidder:.....

CIDB Registration Number:

RESPONSIVENESS CHECKLIST

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RESPONSIVENESS CHECKLIST

1. MANDATORY REQUIREMENTS TO BE SUBMITTED

Bid documents that do not comply with these requirements will be deemed to be non-responsive

ITEM NO.	DESCRIPTION
1	Completed and signed Invitation to Bid (SBD 1) (in case of a Joint Venture/Consortium, the information of all the entities should be reflected on the SBD1 form.
2	Completed and signed Bidder's Disclosure (SBD 4) . (in case of a Joint Venture/Consortium, a separate SBD 4 form in respect of each party to the JV must be completed and submitted).
3	Tenderers must be registered with the Construction Industry Development Board (CIDB) and must submit proof of an active CIDB grading of 5GB or higher . Emerging contractors with CIDB grading designation of 4GBPE are not eligible to make submission and will not be considered.
4	Bidders must complete and sign the attendance register for the mandatory briefing meeting. The attendance register must be completed in the name of the bidding entity. One delegate may not represent more than one bidding entity.
5	A Signed letter of intent to enter into a Joint Venture/Consortium. To be signed by all parties to the Joint Venture/ Consortium (Where applicable)
6	Completed and Signed Certificate of Authority of Signatory to be signed by all bidders. In case of a Joint Venture/ Consortium, the Authority of Lead Partner to sign JV/Consortium documents must ALSO be provided and signed by all parties in the JV. Proof of authority to sign may be submitted in a form of company resolution
7	<p>An original fully completed, priced and handwritten Bill of Quantities (including Mechanical, Electrical BoQ & SHE BoQ (where applicable),) must be filled in clearly legible with permanent black ink.</p> <p>In cases where the P&G's is not priced but included within the tendered rates, the bidder must explicitly indicate as such. Failure to provide the total amount for P&G's or to state if the amount is covered elsewhere will result in immediate disqualification. The bidder must expressly state "Included or elsewhere covered" for line items that</p>

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	are considered to be covered elsewhere in the Measured Works Items. Non-compliance will lead to immediate disqualification. Copies of the priced BoQ, alternatively scanned copies of priced Bills of Quantities are not acceptable and may result in disqualification.
8	A Fully Completed and Signed Form of Offer, handwritten in permanent ink.
9	Bidders MUST provide appointment letters, completion certificates and performance reports from the previous employer or consultants that they have worked with in projects completed in last 7 years. Only in comparable projects within the built environment – Construction of school buildings, Libraries etc. Details of two (2) contactable reference for each project listed are to be included. All the documents stated above must be for projects completed in the last 7 years.
10	The bidders are to provide information that covers the level of experience, and the positions held of the key staff /personnel (specific to the Contracts Manager, Site Agent and Foreman) that will be available to manage the execution of the project (refer to returnable sheet C3.11). Please provide copies of CV's and Qualifications. Failure to provide CV's will suggest the absence of such experience.

ADDITIONAL INFORMATION REQUIRED TO BE SUBMITTED BY TENDERERS

ITEM NO.	DESCRIPTION
1	As per amended construction codes, companies with less than 51% black shareholding (QSEs & Generics) are to submit a valid SANAS Accredited B-BBEE Verification Certificate (with the full applicable B-BBEE elements) QSE with at least 51% or 100% black shareholding and EMEs with an annual turnover of R 3 million are required to submit a B-BBEE verification certificate from a SANAS accredited verification agency as they have to comply with the 33% sub-minimum requirement on the QSE Skills Scorecard to avoid being discounted a level. EMEs with a turnover of less than R 3 million are exempt from complying with the subminimum requirement and may submit an affidavit or a certificate issued by CIPC, confirming their ownership and annual turnover. The consortia/Joint Venture must submit a consolidated B-BBEE Certificate as well as individual B-BBEE Certificates/affidavits of their own entities to confirm the type of enterprise.
2	Proposed methodology covering and demonstrating coherence of the: (i) Work organization programme, (ii) Resource plan, and

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	(iii) Methodology for executing the works.
3	<p>Supporting documents on project's imperative:</p> <ul style="list-style-type: none"> (i) Plans for promoting and managing safety, health and environmental issues during execution of the project; (ii) Plans for monitoring and applying quality assurance principles in the execution of the project; (iii) Plans for addressing socio-economic issues with specifics on numbers to be achieved, which include: <ul style="list-style-type: none"> i. Maximisation of job opportunities (labour histograms), ii. Use of local material /local suppliers, iii. Training of labour (non-accredited and accredited training).
4	Completed and signed Form SBD 6.1 preference points claim form in terms of the Preferential Procurement Regulations, 2022.
5	Bidders must complete and sign the POPI Consent Form. In the case of a JV / Consortium, a separate form in respect of each party to the JV must be completed.
6	The Bidders are to provide Form K2 – completed and signed –indicating their percentage commitment to the Contract Participation (in %) and rand value for sub-contracting to EMEs/QSEs.

TENDER DOCUMENT CHECKLIST

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TENDER DOCUMENT CHECKLIST

Bidders must complete this document checklist to ensure that all information is completed in the Tender Document.

ITEMS		CHECKED Contractor
1)	Correct Tender Offer of Amount carried forward to Cover Page and Form of Offer and Acceptance in Section C1	
2)	All pages requiring signatures signed by Bidder	
3)	Bills of Quantities	
i)	Section Summaries and Final Summary Completed in BLACK INK	
ii)	Corrections crossed out and initialled	
4)	All returnable Documents and Schedules submitted	
A	Authority for Signatory	
B	Schedule of Work carried out by Bidder	
C	Proposed Key Personnel	
D	Schedule of Proposed-Subcontractors	
F	Financial References	
G	Estimated Monthly Expenditure	
H	Details of Amendments and Qualifications	
I	Protection Of Personal Information: Consent	
K	Form K1 Locality Targeting Form	
L	Form K 2 SMME/QSE/ EME CPG Declaration	
M	Record of Addenda to Tender Document	
N	Joint Venture Disclosure Form	
O	BBBEE Validation & CIDB Certificate	
P	Performance Evaluation Form	
SBD 1	Invitation to Bid	
SBD 4	Bidders Disclosure form	
SBD 6.1	Preference Points claim form	

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SBD1 – INVITATION TO BID

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE COEGA DEVELOPMENT CORPORATION					
BID NUMBER:	CDC/329/24	CLOSING DATE:	11 NOVEMBER 2024	CLOSING TIME:	12H00
DESCRIPTION	CONSTRUCTION OF NEW ECDC EDUCATIONAL FACILITIES AT COBOSI PRIMARY JUNIOR SCHOOL (PJS)				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
CDC'S EAST LONDON OFFICE, GROUND FLOOR, HARRAWAY HOUSE,					
12 PEARCE ROAD, BEREA, EAST LONDON					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Ms. Zine Mtanda		CONTACT PERSON	Ms. Zine Mtanda	
TELEPHONE NUMBER	N/A		TELEPHONE NUMBER	N/A	
FACSIMILE NUMBER	N/A		FACSIMILE NUMBER	N/A	
E-MAIL ADDRESS	tendersDoEec@coega.co.za		E-MAIL ADDRESS	tendersDoEec@coega.co.za	
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
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?		<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?				<input type="checkbox"/> YES <input type="checkbox"/> 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, 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 THE BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:

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PART C1 – AGREEMENT AND CONTRACT DATA

C1.1 FORM OF OFFER AND ACCEPTANCE

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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 a contractor for **COBOSI PRIMARY JUNIOR SCHOOL**

The Bidder, 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

The Bidder, identified in the Offer signature block, has examined the draft contract as listed in the Acceptance section and agreed to provide this Offer.

By the representative of the Bidder, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance the Bidder offers to perform all of the obligations and liabilities of the **JBCC Principal Building Agreement** 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 VAT IS:

R (in words)

.....
.....

R (in figures).....

THE OFFERED COST PARAMETERS TO PROVIDE THE WORKS, EXCLUSIVE OF VALUE ADDED TAX, ARE AS SET IN THE CONTRACT DATA.

THE OFFERED STAFF RATES TO PERFORM THE SERVICES, EXCLUSIVE OF VALUE ADDED TAX ARE AS SET OUT IN THE PRICING SCHEDULE.

THE OFFERED PRICES ARE AS STATED IN THE PRICING SCHEDULE.

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 including the Schedule of Deviations (if any) to the Bidder before the end of the agreed period of validity or other period as agreed, whereupon the Bidder becomes the party named as the **Contractor** in the conditions of contract identified in the Contract Data.

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Signature(s)

Name(s)

Capacity

for the

Bidder

(Insert name and address of
organisation)

Name &
signature of
witness

Date

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Acceptance

By signing this part of this Form of Offer and Acceptance, the **Employer** identified below accepts the Bidder'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 Bidder's Offer shall form an agreement between the Employer and the Bidder 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 Form of Offer and Acceptance)

Part C2 Pricing Data

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the Bidder and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

Deviations from and amendments to the draft contract as well as any changes to the terms of the Offer agreed by the Bidder and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The Bidder shall within Fourteen (14) working days of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), deliver to the Employer's agent (whose details are given in the Contract Data) proof of insurances, Safety, Health and Environmental Plans and any other documentation (except securities/ construction guarantees) to be provided in terms of the conditions of contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement by the Contractor and the Employer shall be entitled at his discretion to terminate this agreement.

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The Bidder shall within Twenty-one (21) working days of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), deliver to the Employer's agent (whose details are given in the Contract Data) securities/ construction guarantees to be provided in terms of the conditions of contract identified in the Contract Data. Failure to fulfil this obligation in accordance with those terms shall constitute a repudiation of this agreement by the Contractor and the Employer shall be entitled at his discretion to terminate this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the Bidder receives one fully completed copy of this document, including the Schedule of Deviations (if any). Unless the Bidder (now **Contractor**) within Five (5) 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(s)

Name(s)

Capacity

**for the
Employer**

*(Insert name and address of
organisation)*

**Name &
signature of
witness**

Date

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Schedule of Deviations

1 Subject: _____
Details: _____

2 Subject _____
Details: _____

3 Subject _____
Details: _____

4 Subject _____
Details: _____

5 Subject _____
Details: _____

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By the duly authorised representatives signing this agreement, the Employer and the Bidder 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 returnable schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Bidder and the Employer during this process of offer and acceptance.

By the duly authorised representatives signing this agreement, the Employer and the Bidder agree to and accept the foregoing schedule of deviations as the only deviations from the draft contract, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Bidder 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 Bidder of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

Signature(s) _____

Name(s) _____

Capacity _____

**For the
Employer**

(Insert name and address of
organisation)

**Name and
signature of
witness**

Date

Signature(s) _____

Name(s) _____

Capacity _____

**For the
Contractor**

**Name and
signature of
witness**

(Insert name and address of
organisation)

Date

**C1.2.1 CONTRACT DATA: PART 1 : DATA PROVIDED BY THE
EMPLOYER**

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C.1.2.1 Contract Data

The Conditions of Contract are the **JBCC Principal Building Agreement (Edition 6.2, May 2018)**, published by the Joint Building Contracts Committee Inc. Copies of these documents may be obtained from the **Association of South African Quantity Surveyors (011) 315 4140, the Master Builders Association (011)205 9000, the South African Association of Consulting Engineers (011) 463 2022 or the South African Institute of Architects (011) 486 0684.**

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

Part 1: Data provided by the Employer.

JBCC Clause	Data	
A 1.0 [1.1]	Works :	
	Project Name:	COBOSI PRIMARY JUNIOR SCHOOL
	Reference Number:	CDC/329/24
	Works Description:	Construction of New ECD Educational Facilities at Cobosi Primary Junior School
A 2.0 [1.1]	Site: Cobosi Primary Junior School	
	Erf/ Stand Number	88
	Township/ Suburb	Engcobo
	Site Address	Co-ordinates: X 28.12755300 East, Y-31.79543100 South).
	Local Authority	CHRIS HANI DISTRICT MUNICIPALITY
A 3.0 [1.1]	Employer:	
	Official Name of Organ of State /Public Sector Body	Coega Development Corporation (Pty) Ltd
	Business registration number	1982/003891/07
	VAT/GST number	403 011 9947
	Country	South Africa
	Employer's representative Name	Zine Mtanda
	Postal address	Harraway House, No 10 Pearce Street, Berea, East London 5241
	Physical address	Harraway House, No 10 Pearce Street, Berea, East London 5241

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A 4.0 [1.1]	Principal Agent:		
	Name	TCN Architects	
	Legal entity of above	TCN Architects	
	Practice number		
	Country		
	Contract Person		
	Postal address		
	Physical address		
A 5.0 [1.1]	Agent (1):	Discipline:	Architect
	Name	TCN Architects	
	Legal entity of above	TCN Architects	
	Practice number		
	Country		
	Postal address		
	Physical address		
A 7.0 [1.1]	Agent (2):	Discipline:	Quantity Surveyor
	Name	Amahle Quantity Surveyors (Pty) Ltd	
	Legal entity of above	Amahle Quantity Surveyors (Pty) Ltd	
	Practice number		
	Country		
	Postal address		
	Physical address		
A 7.0 [1.1]	Agent (3):	Discipline:	Electrical Engineer
	Name	MXN ELECTROCON PROJECTS	
	Legal entity of above	MXN ELECTROCON PROJECTS	
	Practice number		
	Country		
	Contract Person		
	Postal address		
	Physical address		

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A 8.0 [1.1]	Agent (4):	Discipline:	Mechanical Engineer
	Name	MXN ELECTROCON PROJECTS	
	Legal entity of above	MXN ELECTROCON PROJECTS	
	Practice number		
	Postal address		
	Physical address		
A 9.0 [1.1]	Agent (5):	Discipline:	Civil and Structural Engineer
	Name	BOSCH Projects	
	Legal entity of above	BOSCH Projects	
	Practice number		
	Postal address		
	Physical address		
A 10.0 [1.1]	Agent (6):	Discipline:	Occupational Health and Safety
	Name	Fogza General Trading	
	Legal entity of above	Fogza General Trading	
	Practice number		
	Country		
	Postal address		
	Physical address		

PART B - CONTRACT INFORMATION

JBCC Clause	Data	
B 1.0 [1.1]	Definitions:	
	Bills of quantities: System/Method of measurement	The Bills of Quantities were drawn up in accordance with the measurement system stated in Part C2: Pricing Data
B 2.0 [2.1]	Law, regulations and notices:	
	Law applicable to the works, state country [2.1]	The governing law is the law of the Republic of South Africa The parties consent to the jurisdiction of the Port Elizabeth High Court Office for the purposes of this clause.
B 3.0	Offer and Acceptance:	

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[3.2]	Currency applicable to this agreement [3.2]	South African Rand (ZAR)			
B 4.0 [5.0] [5.2]	Documents :				
[5.6]	The original signed agreement is to be held by the principal agent [5.2], if not, indicate by whom	Employer			
[5.6]	Number of copies of construction information issued to the contractor at no cost [5.6]	3 Sets of complete documents			
[5.1]	Documents comprising the agreement	The documents forming the agreement are to be taken as mutually explanatory of one another and for the purpose of interpretation, the priority of the documents shall be in accordance with the following sequence: the Form of Offer and Acceptance (a) The Schedule of Deviations (b) This Contract Data. (c) The standard JBCC building agreement Ed 6.2 May 2018 (d) The Drawings (e) The Specifications (f) Development Goal (CSDG) programme (g) The Bills of Quantities. If an ambiguity or discrepancy is found in the documents, the Principal Agent shall issue any necessary clarification or instruction			
	Contract drawings	Contract drawings are contained in Part C3.2 (Book 1).			
B 5.0 [6.0] [6.2]	Employer's Agent:				
[6.3]	Authority is delegated to the following agents to issue contract instructions and perform duties for specific aspects of the works [6.2]	Principal Agent Engineers Health & Safety Consultant			
	Principal agent's and agents' interest or involvement in the works other than a professional interest [6.3]	N/A			
B6.0 [10.0]	INSURANCES :				
	Insurances by Contractor <table><tr><td>Yes/No?</td><td>Yes</td></tr></table>	Yes/No?	Yes	Amount including tax	Deductible amount including tax
Yes/No?	Yes				
[10.1.1]	Contracts works insurance to be effected by: CONTRACTOR	Contract sum plus 20%	with deductible of 5%		
[10.1.2]	Supplementary/special insurance to be effected by: CONTRACTOR	Contract sum plus 20%	with deductible of 5%		
[10.1.3]	Public liability insurance to be effected by: CONTRACTOR	R 5 000 000.00	with deductible of 5%		

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[10.1.4]	Removal of lateral support insurance to be effected by: Not applicable		N/A	N/A
[10.1.5]	Other insurances to be effected by: Not applicable		N/A	N/A
B7.0	Obligations of the employer:			
[12.1]	Existing premises will be in use and occupied [12.1.2]		Yes/No?	No
[12.1.2]	If Yes, description			
[12.1.2]	Restriction of working hours [12.1.2]		Yes/No?	No
	If Yes, description	N/A		
[12.1.3]	Natural features and known services to be preserved by the contractor [12.1.3]		Yes/No?	No
	If Yes, description	N/A		
[12.1.4]	Restrictions to the site or areas that the contractor may not occupy [12.1.4]		Yes/No?	No
	If Yes, description	N/A		
[12.1.10]	Supply of free issue [12.1.10]		Yes/No?	No
	If Yes, description	N/A		
B8.0	Nominated Subcontractor's:			
[14.0]	Yes/no?	No	If yes, description of specialisation	
	Specialisation 1	N/A		
B9.0	Selected Subcontractor's:			
[15.0]	Yes/no?	No	If yes, description of specialisation	
	Specialisation 1	N/A		
B10.0	Direct Subcontractor's:			
[16.0]	Yes/no?	Yes	If yes, description of extent of works	
[12.1.11]	Extent of works [12.1.11]		Direct appointment (Client supply) from the Client for the supply and delivery to site of Furniture and Equipment	
B11.0	Description of sections:			
[20.1]	Sectional work completion?		No	If yes, description of sections
	Section No.1	Phase 1		
	Section No.2	Phase 2		
	Section No.3	Phase 3		
	Section No.4	Phase 4		
B12.0	Possession of site:			

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[12.1.5]	Intended date of possession of the site Refer B17.0 [12.1.5; 12.2.22]	Possession of site shall be given to the Contractor after submission by the Contractor of the documents indicated in the Form of Offer and Acceptance , approval of the Contractor's Safety, Health and Environmental Plan and approval of Contractual Documentation	
[19.0]	Practical Completion (Works as a whole):		
[19.3]	Yes/No?	Yes	
	Period for inspection by the principal agent [19.3]	N/A	
[12.2.7]	The date for practical completion shall be the period as indicated below from the date of possession of the site by the contractor . [12.2.7; 24.1]	10 Months	
[24.0]	Penalty:		
[24.1]	Penalty for late completion [24.1]	Yes @3.5Cents per R100	
[19.0]	Practical Completion (Sectional):		
[19.3]	Yes/No?	No	
	Period for inspection by the principal agent [19.3]	Section No.1:	N/A
		Section No.2 :	N/A
		Section No.3 :	N/A
		Section No.4 :	N/A
[12.2.7]	The date for practical completion shall be the period as indicated below from the date of possession of the site by the contractor [12.2.7; 24.1]	Section No.1:	N/A
		Section No.2 :	N/A
		Section No.3 :	N/A
		Section No.4 :	N/A
[24.0]	Penalty:		
[24.1]	Penalty for late completion [24.1]	Section No.1	3.5 Cent per R100 per calendar day.
		Section No.2 :	
		Section No.3 :	
		Section No.4 :	
[12.2.7]	Criteria to achieve practical completion not covered in the	N/A	

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	definition of practical completion				
B13.0 [21.0]	Defects liability period:				
	Extended defects liability period: Refer B17.0 [21.13]		Yes/No No		
	If yes, description of applicable elements	13.1 13.2 13.3 13.4 13.5			
B14.0 [25.0] [25.2]	Payments:				
	Date of month for issue of regular payment certificates [25.2]	The interim payment certificate is to be issued by the 20th day of each month			
[25.3.4;26.9.5]	Contract price adjustment / Cost fluctuations [25.3.4; 26.9.5]	The contract value shall be adjusted according to CPAP if the construction period is more than 1 year. The base month for the application of CPAP is the month of closing of the tender.			
	If yes, method to calculate	Haylett Formula			
	Employer shall pay the contractor within: [25.10]	Thirty (30) Calendar days			
B15.0 [30.0] [30.3.1;30.10]	Dispute resolution:				
	Adjudication [30.6.1; 30.10] Name of nominating body	N/A			
[30.6.2]	Applicable rules for adjudication [30.6.2]	N/A			
[30.7.4;30.10]	Arbitration [30.7.4; 30.10] If Yes, name of nominating body * If No, then dispute will be referred to litigation	<table><tr><td>Yes/No?</td><td>Yes</td></tr></table> The dispute resolution body shall be the Association of Arbitrators (Southern Africa).		Yes/No?	Yes
Yes/No?	Yes				
[30.7.5]	Applicable rules for arbitration [30.7.5]	Association of Arbitrators: Rules for Conduct of Arbitrators as amended from time to time.			
B16.0	JBCC® General Preliminaries - Selections:				
	[P2.2] Provisional bills of quantities [P2.2]	Yes/No?	No		
[P2.3]	Availability of construction information [P2.3]	Yes/No?	Yes		
[P3.1]	Previous work - dimensional accuracy - details of previous contract(s) [P3.1]	N/A			
[P3.2]	Previous work - defects - details of previous contract(s) [P3.2]	N/A			
[P3.3]	Inspection of adjoining properties - details [P3.3]	N/A			
[P4.1]	Handover of site in stages - specific requirements [P4.1]	N/A			

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[P4.2]	Enclosure of the works - specific requirements [P4.2]		YES	
[P4.3]	Geotechnical and other investigations - specific requirements [P4.3]		YES	
[P4.5]	Existing premises occupied - details [P4.5]		YES	
[P4.6]	Services - known - specific requirements [P4.6]		N/A	
[P8.1]	Water [8.1]	By Contractor	Yes/No?	Yes
		By Employer	Yes/No?	No
		By Employer - metered	Yes/No?	No
[P8.2]	Electricity [8.2]	By Contractor	Yes/No?	Yes
		By Employer	Yes/No?	No
		By Employer - metered	Yes/No?	No
[P8.3]	Ablution and welfare facilities [8.3]	By Contractor	Yes/No?	Yes
		By Employer	Yes/No?	No
[P8.4]	Communication facilities - specific requirements [P8.4]		YES	
[P11.1]	Protection of the works - specific requirements [P11.1]		YES	
[P11.2]	Protection / isolation of existing works and works occupied in sections - specific requirements [P11.2]		YES	
[P11.5]	Disturbance - specific requirements [P11.5]		N/A	
[P11.6]	Environmental disturbance - specific requirements [P11.6]		N/A	

B17.0	Changes made to JBCC® documentation
1.1	<p>Definitions</p> <p>AGREEMENT: The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and JBCC® contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representatives of the parties</p> <p>CONSTRUCTION PERIOD: The period commencing on the date of possession of the site by the contractor and ending on the date of practical completion</p>

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	<p>CONTRACT DATA FOR ORGANS OF STATE AND OTHER PUBLIC SECTOR BODIES: The document listing the Organs of State and other Public Sector Bodies' requirements and the project specific information</p> <p>INTEREST: The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999), calculated as simple interest, in respect of debts owing to the State, and will be the rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975), calculated as simple interest, in respect of debts owing by the State</p> <p>PRINCIPAL AGENT: The person or entity appointed by the employer and named in the contract data for organs of state and other public sector bodies. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by the employer's representative as named in the contract data for organs of state and other public sector bodies</p>
3.0	<p>Offer and Acceptance Amend 3.3 to read as follows: This agreement shall come into force on the date as stated on the Form of Offer and Acceptance and continue to be of force and effect until the end of the latent defects liability period [22.0] notwithstanding termination [29.0] or the certification of final completion [21.0] and final payment [25.0]</p>
6.0	<p>Employer's Agents Add the following as 6.7: In terms of the clauses listed hereunder, the employer has retained its authority and has Not given a mandate to the principal agent. The employer shall sign all documents in relation to clauses 4.2, 14.1.2, 14.1.4, 14.4.1, 14.6, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12 and 28.4</p>
9.0	<p>Indemnities 9.2.7: Add the following to the end of the first sentence: "... due to no fault of the contractor"</p>
10.0	<p>Insurances Add the following as 10.1.5.1:</p> <p>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 sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:</p> <p>10.1.5.1.1 Damage to the works The contractor shall, from the date of possession of the site until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs</p> <p>10.1.5.1.2 Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon</p>

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	<p>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</p> <p>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.1.5.1.3</p> <p>It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the date of possession of the site, but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>10.1.5.1.4</p> <p>The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p>
11.0	<p>Securities</p> <p>Amend 11.10 to read as follows:</p> <p>There shall be no lien or right of retention held by any contractor in respect of the works executed on site</p>
12.0	<p>Obligations of the Parties</p> <p>Amend 12.1.5 to read as follows:</p> <p>Give possession of the site to the contractor within ten (10) working days of the contractor complying with the terms of 12.2.22</p> <p>12.2.2: Not applicable</p> <p>Add the following as 12.2.22:</p> <p>Within fifteen (15) working days of the date of the agreement submit to the principal agent an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p>
19.0	<p>Practical Completion</p> <p>19.5: Delete the words "subject to the contractor's lien or right of continuing possession of the works where this has not been waived"</p>
21.0	<p>Defects Liability Period and Final Completion</p> <p>The defects liability period is ninety (90) calendar days defects liability period for the works as a whole commencing when work on the list completion has been satisfactorily attended.</p>
25.0	<p>Payment</p> <p>25.7.5: Not applicable</p> <p>25.10: Delete the words "and/or compensatory interest"</p> <p>25.14.2: Not applicable</p>
27.0	<p>Recovery of Expense and/or Loss</p> <p>27.1.5: Not applicable</p>
29.0	<p>Termination</p> <p>Add the following after 29.1.3:</p> <p>or where ...</p> <p>29.1.4: The contractor's estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p>

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	29.1.5: The contractor has engaged in corrupt or fraudulent practices in competing for or in executing the contract
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**C1.2.2 CONTRACT DATA: PART 2 : DATA PROVIDED BY THE
CONTRACTOR**

C.1.2.2 Contract Data

The Conditions of Contract are the **JBCC Series Principal Building Agreement (Edition 6.2, May 2018)**, published by the Joint Building Contracts Committee Inc. Copies of these documents may be obtained from the **Association of South African Quantity Surveyors (011) 315 4140**, the **Master Builders Association (011)205 9000**, the **South African Association of Consulting Engineers (011) 463 2022** or the **South African Institute of Architects (011) 486 0684**.

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

Part 2: Data provided by the Contractor.

JBCC Clause	Data				
C1.0	SECURITIES				
[11.0]	Guarantee for construction: Select Option A or B			Select A or B	
[11.1.1]	Option A	Guarantee for construction (variable) by contractor			
[11.1.2]	Option B	Guarantee for construction (fixed) by contractor			
[11.5.1;11.10]	Guarantee for payment by employer - Not applicable				
[11.2.2; 11.3]	Advance payment, subject to a guarantee for advance payment - Not applicable				
C2.0	Contractor's annual holiday periods during the construction period				
	Year 1 contractor's annual holiday period	Start date		End date	
	Year 2 contractor's annual holiday period	Start date		End date	
	Year 3 contractor's annual holiday period	Start date		End date	
C3.0	Payment of preliminaries				
[25.0]	Contractor's selection: Select Option A or B			Select A or B	

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	<p>Where the contractor does not select an option, Option A shall apply:</p> <p>Payment methods:</p> <p><u>Option A:</u></p> <p>The preliminaries shall be paid in accordance with an amount prorated to the value of the works executed in the same ratio as the amount of the preliminaries to the contract sum, which contract sum shall exclude the amount of preliminaries. Contingency sum(s) and any provision for cost fluctuations shall be excluded for the calculation of the aforesaid ratio</p> <p><u>Option B :</u></p> <p>The preliminaries shall be paid in accordance with an amount agreed by the principal agent and the contractor in terms of the priced document to identify an initial establishment charge, a time-related charge and a final dis-establishment charge. Payment of the time-related charge shall be assessed by the principal agent and adjusted from time to time as may be necessary to take into account the rate of progress of the works</p> <p>Lump sum contract :</p> <p>Where the amount of preliminaries is not provided it shall be taken as 7.5% (seven and a half per cent) of the contract sum, excluding contingency sum(s) and any provision for cost fluctuations</p>		
C4.0	Adjustment of preliminaries [26.9.4]		
[26.9.4]	Contractor's selection: Select Option A or B		Select A or B
	<p>Provision of particulars</p> <p>The contractor shall provide the particulars for the purpose of the adjustment of preliminaries in terms of his selection. Where completion in sections is required, the contractor shall provide an apportionment of preliminaries per section</p> <p><u>Option A :</u></p> <p>An allocation of the preliminaries amounts into Fixed, Value-related and Time-related amounts as defined for adjustment method Option A below, within fifteen (15) working days of the date of acceptance of the tender</p> <p><u>Option B :</u></p> <p>A detailed breakdown of the preliminaries amounts within fifteen (15) working days of possession of the site. Such breakdown shall include, inter alia, the administrative and supervisory staff, the use of construction equipment, establishment and dis-establishment charges, insurances and guarantees, all in terms of the programme</p>		
	<p>Adjustment methods</p> <p>The amount of preliminaries shall be adjusted to take account of the effect which changes in time and/or value have on preliminaries. Such adjustment shall be based on the particulars provided by the contractor for this purpose in terms of Options A or B, shall preclude any further adjustment of the amount of preliminaries and shall apply notwithstanding the actual employment of resources by the contractor in the execution of the works</p> <p><u>Option A :</u></p> <p>The preliminaries shall be adjusted in accordance with the allocation of preliminaries amounts provided by the contractor, apportioned to sections where completion in sections is required</p> <p>Fixed - An amount which shall not be varied</p>		

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	<p>Value-related - An amount varied in proportion to the contract value as compared to the contract sum. Both the contract sum and the contract value shall exclude the amount of preliminaries, contingency sum(s) and any provision for cost fluctuations</p> <p>Time-related - An amount varied in proportion to the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value [23.2; 23.3] as compared to the number of calendar days in the initial construction period [26.9.4]</p> <p><u>Option B :</u></p> <p>The adjustment of preliminaries shall be based on the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value [23.2; 23.3] as compared to the number of calendar days in the initial construction period [26.9.4]</p> <p>The adjustment shall take into account the resources as set out in the detailed breakdown of the preliminaries for the period of construction during which the delay occurred</p>
	<p>Failure to provide particulars within the period stated</p> <p><u>Option A :</u></p> <p>Where the allocation of preliminaries amounts for Option A is not provided, the following allocation of preliminaries amounts shall apply:</p> <p>Fixed - Ten per cent (10%)</p> <p>Value-related - Fifteen per cent (15%)</p> <p>Time-related - Seventy-five per cent (75%)</p> <p>Where the apportionment of the preliminaries per section is not provided, the categorised amounts shall be prorated</p> <p><u>Option B :</u></p> <p>Where the detailed breakdown of preliminaries amounts for Option B is not provided, Option A shall apply</p> <p>Lump sum contract</p> <p>Where the amount of preliminaries is not provided it shall be taken as 7.5% (seven and a half per cent) of the contract sum, excluding contingency sum(s) and any provision for cost fluctuations</p>

C1.3 PRO-FORMA FORMS TO BE COMPLETED AFTER AWARD

C1.3.1 CONSTRUCTION GUARANTEE

C 1.3.1 CONSTRUCTION GUARANTEE

The **Contractor** shall have the right to choose the Construction Guarantee as stated in the Contract Data

The Construction Guarantee options are:

i. Variable Construction Guarantee of 10% of the Contract Sum. Yes ☐ No ☐

ii. Fixed construction guarantee and Payment Reduction Yes ☐ No ☐

A Signed letter of Intent to be submitted with the returnable document

NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to below. No alterations or amendments of the wording of the pro-forma will be accepted.

The security guarantee to be provided shall not contain an expiry date.

C1.3 CONSTRUCTION GUARANTEE (PRO-FORMA)

GUARANTOR DETAILS AND DEFINITIONS

Guarantor means

Physical address

.....

Guarantor's signatory 1..... Capacity

Guarantor's signatory 2..... Capacity

Employer means **Coega Development Corporation (Pty) Ltd**

Contractor means

Principal Agent means

Works means.

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Site means.

Agreement means **The JBCC Series 2000 Principal Building Agreement – edition 6.2 and Annexures**

Contract Sum means The accepted amount inclusive of tax of R.....

Amount in words.....

Guaranteed Sum means The maximum aggregate amount of R

Amount in words.....

Construction Guarantee (Insert Variable or Fixed).....

AGREEMENT DETAILS

Sections: Total sections (No or n/a)

Last section (No / Identification or n/a.....

Principal Agent issues: Interim payment certificates, Final payment certificate, Practical completion certificate/s and Final completion certificate/s

VARIABLE CONSTRUCTION GUARANTEE

1.1 Where a variable Construction Guarantee in terms of the Agreement has been selected this 1.0 with 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the diminishing amounts of the Guaranteed Sum as follows:

GUARANTOR'S LIABILITY

1.1.1 Maximum Guaranteed Sum (not exceeding 10.0% of the contract sum) in the amount of:

.....

Amount in words.....

PERIOD OF LIABILITY

From and including the date of issue of this Construction Guarantee and up to and including the date of the interim payment certificate certifying in excess of 50% of the contract sum

GUARANTOR'S LIABILITY

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1.1.2 Reducing to the Guaranteed Sum (not exceeding 6.0% of the contract sum) in the amount of:

Amount in words.....

PERIOD OF LIABILITY

From and including the day after the date of the aforesaid interim payment certificate and up to and including the date of the only practical completion certificate or last practical completion certificate where there are sections

GUARANTOR'S LIABILITY

1.1.3 Reducing to the Guaranteed Sum (not exceeding 4.0% of the contract sum) in the amount of:

Amount in words.....

PERIOD OF LIABILITY

From and including the day after the date of the applicable practical completion certificate and up to and including the date of the only final completion certificate or last final completion certificate where there are sections

GUARANTOR'S LIABILITY

1.1.4 Reducing to the Guaranteed Sum (not exceeding 2.0% of the contract sum) in the amount of:

Amount in words.....

PERIOD OF LIABILITY

From and including the day after the date of the applicable final completion certificate and up to and including the date of the final payment certificate where payment is due to the Contractor, whereupon this Construction Guarantee shall expire. Where the final payment certificate reflects payment due to the Employer, this Construction Guarantee shall expire upon payment of the full amount certified.

1.2 For avoidance of doubt the Guarantor's liability limits set out in 1.1.1 to 1.1.4 shall apply in respect of any claim received by the Guarantor during the period in question.

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2.0 FIXED CONSTRUCTION GUARANTEE

2.1 Where a fixed Construction Guarantee in terms of the Agreement has been selected this 2.0 with 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum as follows:

GUARANTOR'S LIABILITY

1.1.1 Maximum Guaranteed Sum (not exceeding 5.0% of the contract sum) in the amount of:.....

Amount in words.....

PERIOD OF LIABILITY

From and including the date of issue of this Construction Guarantee and up to and including the date of the only final completion certificate or the last final completion certificate where there are sections, upon which this Construction Guarantee shall expire.

3.0 The Guarantor hereby acknowledges that:

3.1 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 suretyship.

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

4.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:

4.1 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 4.2.

4.2 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 4.1 and that the sum certified has still not been paid therefore the Employer calls up this Construction Guarantee and demands payment of the sum certified from the Guarantor.

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- 4.3 A copy of the said payment certificate which entitles the Employer to receive payment in terms of the Agreement of the sum certified in 4.0
- 5.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0 , 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 Construction Guarantee stating that:
- 5.1 The Agreement has been terminated due to the Contractor's default and that the Construction Guarantee is called up in terms of 5.0. The demand shall enclose a copy of the notice of termination; or
- 5.2 A business rescue, provisional sequestration or liquidation OFFICE order has been granted against the Contractor and that the Construction Guarantee is called up in terms of 5.0. The demand shall enclose a copy of the OFFICE order or Practitioner's notice of termination of business rescue or rejection of business rescue plan in terms of the Companies Act.
- 6.0 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4.0 and 5.0 shall not exceed the Guarantor's maximum liability in terms of 1.0 or 2.0.
- 7.0 Where the Guarantor is a registered insurer and has made payment in terms of 5.0, 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 Construction Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Construction 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.
- 8.0 Payment by the Guarantor in terms of 4.0 or 5.0 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor
- 9.0 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 Construction Guarantee on account of any conduct alleged to be prejudicial to the Guarantor

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- 10.0 The Guarantor chooses the physical address as stated above for all purposes in connection herewith
- 11.0 This Construction Guarantee is neither negotiable nor transferable and shall expire in terms of either 1.1.4 or 2.1, or payment in full of the Guaranteed Sum whichever is the earlier, where after no claims will be considered by the Guarantor. The original of this Construction Guarantee shall be returned to the Guarantor after it has expired
- 12.0 This Construction Guarantee, with the required demand notices in terms of 4.0 or 5.0, shall be regarded as a liquid document for the purpose of obtaining an OFFICE order
- 13.0 Where this Construction Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's OFFICES Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's OFFICE 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 OFFICE

Signed at Date

Guarantor's Signatory 1 Guarantor's Signatory 2

Witness Witness

Guarantor's seal or stamp

C1.3.2 AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

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CONTRACT NO.: CDC/329/24, EMIS Nu.: 200400085, ECDoe P Nu.: P9007203**

C 1.3.2. AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993)

THIS AGREEMENT made at

on this the day of in the year

between Coega Development Corporation (Pty) Ltd (hereinafter called "the Employer") of the one part, herein represented by

in his capacity as

and

(hereinafter called "the Mandatory") of the other part, herein represented by

.....

in his capacity as

WHEREAS the Employer is desirous that certain works be constructed, viz "**CONTRACT NO. CDC/329/24- COBOSI PRIMARY JUNIOR SCHOOL**" and has accepted a Tender by the Mandatory for the construction, completion and maintenance of such Works and whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatory with the provisions of the Occupational Health and Safety Act, 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Mandatory shall execute the work in accordance with the Contract Documents pertaining to this Contract.
2. This Agreement shall hold good from its Commencement Date, which shall be the date of a written notice from the Employer or Principal Agent requiring him to commence the execution of the Works, to either
 - (a) the date of the Certificate of Practical Completion issued in terms of Sub-Clause 24.4 of the JBCC Series 2000 Principal Building Agreement (Edition 5), or
 - (b) the date of termination of the Contract in terms of Clause 26.6 of the JBCC Series 2000 Principal Building Agreement (Edition 5).
3. The Mandatory declares himself to be conversant with the following:
 - (a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as "The Act", together with its amendments and with special reference to the following Sections of The Act:
 - (i) Section 8 : General duties of employers to their employees;

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- (ii) Section 9 : General duties of employers and self-employed persons to persons other than employees;
 - (iii) Section 37 : Acts or omissions by employees or mandatories, and
 - (iv) Sub-section 37(2) relating to the purpose and meaning of this Agreement.
 - (b) The procedures and safety rules of the Employer as pertaining to the Mandatory and to all his subcontractors.
4. The Mandatory agrees to execute all the Works forming part of this Contract and to operate and utilise all machinery, plant and equipment in accordance with the Act.
5. The Mandatory is responsible for the compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.
6. The Mandatory warrants that all his and his subcontractors' workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act, 1993 which cover shall remain in force whilst any such workmen are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.
7. The Mandatory undertakes to ensure that he and/or subcontractors and/or their respective employers will at all times comply with the following conditions:
- a) The Mandatory shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The Mandatory shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the Mandatory obtains such approval and delegates any duty in terms of section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.
 - b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Mandatory to the Department of Labour as well as to the Employer.
 - c) The Employer will further be provided with copies of all written documentation relating to any incident
 - d) The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of section 32 of the Occupational Health and Safety Act into any incident involving the Mandatory and/or his employees and/or his subcontractors.

In witness thereof the parties hereto have set their signatures hereon in the presence of the subscribing witnesses:

SIGNED FOR AND ON BEHALF OF THE EMPLOYER:

WITNESS	1	2
NAME	1	2

(IN CAPITALS)

**CONSTRUCTION OF NEW ECD EDUCATIONAL FACILITIES
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SIGNED FOR AND ON BEHALF OF THE MANDATORY:

WITNESS 1 2

NAME 1 2

1.3.3 Certificate of Authority for Signatory to Agreement in terms of OHS Act (85 of 1993)

The signatory for the company that is the Contractor in terms of the above-mentioned Contract and the Mandatory in terms of the above-mentioned Act shall confirm his or her authority thereto by attaching to this page a duly signed and dated copy of the relevant resolution of the Board of Directors.

An example is given below:

"By resolution of the Board of Directors passed at a meeting held on 201.....,

Mr/Ms whose signature

appears below, has been duly authorised to sign the AGREEMENT in terms of THE

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT 85 of 1993) on behalf of

.....

SIGNED ON BEHALF OF THE COMPANY :

IN HIS/HER CAPACITY AS :

DATE :

SIGNATURE OF SIGNATORY :

WITNESS: 1 2.

NAME (in capitals): 1 2.

PART C2 – PRICING DATA

C2.1 PRICING INSTRUCTIONS

**CONSTRUCTION OF NEW ECD EDUCATIONAL FACILITIES
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C2.1 Pricing Instructions

1. The JBCC Series 2000 Principal Building Agreement (Edition 6.2, May 2018) Conditions of Contract, the Special Conditions of Contract, the Specifications, the Model Preambles for Trades and Description of Materials and Workmanship to All Trades and the Drawings shall be read in conjunction with the Bills of Quantities.
- 2 The Bills of Quantities comprise items covering the Contractor's profit and costs of general liabilities and of the construction of all Temporary and Permanent Works.

Although the Bidder is at liberty to insert a rate of his own choosing for each item in the Bills of Quantities, he should note the fact that the Contractor is entitled, under various circumstances, to payment for additional work carried out and that the Engineer is obliged to base his assessment of the rates to be paid for such additional work on the rates the Contractor inserted in the Bills of Quantities.

- 3 Descriptions in the Bills of Quantities may differ from those in the Standardized and Project Specifications. The descriptions and specifications in the Bills of Quantities will however take preference over these specifications. No consideration will be given to any claim by the Contractor submitted on such a basis. Except for SANS 1200 A and 1200 AB all measurement and payment clauses (clause 8) of the standard specifications are deleted. The Bills of Quantities have been drawn up generally in accordance with the latest issue of Standard System of Measuring Building Work ¹. Should any requirement of the measurement and payment clause of the appropriate Standardized or Project Specification(s) be contrary to the terms of the Bills of Quantities or, when relevant, to the Standard System of Measuring Building Work, the requirement of the Standard System of Measuring Building Work shall prevail.
- 4 Unless stated to the contrary, items are measured net in accordance with the Drawings without any allowance having been made for waste.
- 5 The amounts and rates to be inserted in the Bills of Quantities shall be the fully inclusive amounts to the Employer for the work described under the several items. Such amounts shall cover all the costs and expenses that may be required in and for the construction of the work described, and shall cover the costs of all general risks, profits, taxes (but excluding value-added tax), liabilities and obligations set forth or implied in the documents on which the Tender is based.
- 6 An amount or rate shall be entered against each item in the Bills of Quantities, whether or not quantities are stated. An item against which no amount or rate is entered will be considered to be covered by the other amounts or rates in the Bills of Quantities.

The Bidder shall also fill in a rate against the items where the words "rate only" appear in the amount column. Although no work is foreseen under these items and no quantities are consequently given in the quantity column, the tendered rates shall apply should work under these items actually be required.

Should the Bidder group a number of items together and tender one sum for such group of items, the single tendered sum shall apply to that group of items and not to each individual item, or should he indicate against any item that full compensation for such item has been included in another item, the rate for the item included in another item shall be deemed to be nil.

The standard system of measurement of building work published by the Association of South African Quantity Surveyors.

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The tendered rates, prices and sums shall, subject only to the provisions of the Conditions of Contract, remain valid irrespective of any change in the quantities during the execution of the Contract.

- 7 The quantities of work as measured and accepted and certified for payment in accordance with the Conditions of Contract, and not the quantities stated in the Bills of Quantities, will be used to determine payments to the Contractor. The validity of the Contract shall in no way be affected by differences between the quantities in the Bills of Quantities and the quantities certified for payment.

Ordering of materials is not to be based on the Bills of Quantities, but only on information issued for construction purposes.

- 8 For the purposes of this Bills of Quantities, the following words shall have the meanings hereby assigned to them:

Unit	:	The unit of measurement for each item of work as defined in the Standard System of Measuring Builders Work
Quantity	:	The number of units of work for each item
Rate	:	The payment per unit of work at which the Bidder tenders to do the work
Amount	:	The quantity of an item multiplied by the tendered rate of the (same) item
Item or Sum	:	An amount tendered for an item or sum, the extent of which is described in the Bills of Quantities, the Specifications or elsewhere, but of which the quantity of work is not measured in units

- 9 The units of measurement indicated in the Bills of Quantities are metric units. The following abbreviations may appear in the Bills of Quantities:

Item	=	1 off
No	=	Units measured in number
mm	=	millimetre
m	=	metre
km	=	kilometre
m ²	=	square metre
m ³	=	cubic metre
m ³ -km	=	cubic metre-kilometre
t	=	ton (1 000 kg)
PC Sum	=	Prime Cost Sum
Prov Sum	=	Provisional Sum

- 10 The Bidder shall enter extended totals for each summary page and final summary in the Bills of Quantities in black ink.
- 11 These Bills of Quantities contain pages numbered consecutively in each Bill as indicated in the Index. Before the Contractor submits his Tender he should check the number of pages in every Bill and if any are found missing or duplicated, or the figures or writing indistinct, or the Bills of Quantities contain any obvious errors, he should apply to the Engineer at once and have same rectified, as no liability whatsoever will be admitted by the Engineer in the respect of errors in the Tender due to the foregoing.

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- 12 No alteration, erasure or addition is to be made in the text of the Bills of Quantities. Should any alteration, erasure or addition be made, it will not be recognized but the original wording of the Bills of Quantities will be adhered to.
- 13 Quantities where indicated as provisional are measured provisional and are subject to re-measure on completion of the project.
- 14 The totals (Value Added Tax excluded) on the final summaries are to be transferred to the Final Summary of the Provisional Bills of Quantities in Volume 2 for inclusion in the Total Tender Sum.
- 15 Completed Bills of Quantities for all trades clearly filled in, legible and in permanent ink are to be submitted with the tender offer.

16 Contract Skills Development

- *The contract skills participation goals are specified in the Socio-economic specification. The value of the Contract skills participation goals,, expressed in Rand, shall be not be less than the contract amount multiplied by a percentage (%) factor given in **Table 2** in the Standard for Skills Development, for the applicable class of works.*

- **Payment to the contractor to accommodate Part/ full occupational qualification and Trade qualification:**

*The contractor shall, in accordance with the socio-economic specification, apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using **Table 3** in the Standard and this cost will be used to determine the value in Rand and will be added to the provisions for training as provided for in the Preliminary & General section in the Bill of Quantities/ Pricing schedules/ Activity schedule.*

- **Payment to the contractor to accommodate Work Integrated Learners and Candidates for Professional Registration:**

*The contractor shall apportion the cost of accommodating work integrated learners (P1 and P2 learners) and candidates for professional registration by using **Table 3** in the Standard and this cost will be used to determine the value in Rand and will be added to the provisions for training as provided for in the Preliminary & General section in the Bill of Quantities/ Pricing schedules/ Activity schedule.*

- **Supervisors and Mentors**

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Payment to the contractor for supervision and mentoring Part/ Full occupational qualification and Trade qualification learners:

The employer shall make no provision for an additional payment item for the payment of the supervisor and/ or mentors for the provision of training as provided for in the Preliminary & General section of the Bill of quantities/ Pricing schedules/ Activity schedule for the training of part time/ full time occupational learners and/ or trade qualification learners.

- ***Payment to the contractor for supervision and mentoring Work Integrated Learners and Candidates for professional registration:***

*The contractor shall, in accordance with the socio-economic specification, apportion the cost of mentoring work integrated learners (P1 and P2 learners) and candidates for professional registration by using **Table 3** in the Standard and will form part of the cost as provided for in the Preliminary & General section in the Bill of Quantities/ Pricing schedules/ Activity schedules for training.*

5.7.2 Indirect Targeting – Enterprise Development

The Employer shall determine the amount to be paid for the Contract Participation Goal (CPG) on the contract, and this amount shall be stated under the section: Enterprise Development as a Provisional Sum in the Preliminaries Items in the Bill of Quantities.

C2.2 BILLS OF QUANTITIES

SECTION 1

PRELIMINARIES & GENERAL

BILL No.1

PRELIMINARIES AND GENERAL

BUILDING AGREEMENT AND PRELIMINARIES

The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described

The JBCC Principal Building Agreement contract data form an integral part of this agreement

The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described

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

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

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

Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents

Carried to Collection

SECTION 1 : PRELIMINARIES & GENERAL

Bill No.1 : Preliminaries

PREAMBLES FOR TRADES

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. Where such preambles are not applicable (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications

Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same

The latest version of the General Preambles for Trades should be referred to should the General Preambles for Trades 2017 be revised in future

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

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

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

Carried to Collection

SECTION 1 : PRELIMINARIES & GENERAL
 Bill No.1 : Preliminaries

R

STRUCTURE OF THIS PRELIMINARIES BILL

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

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

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

PRICING OF PRELIMINARIES

The contractor is referred to Tender Data Section in BOOK 1 on the Tender Document for Contract Data Information.

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

SECTION A: PRINCIPAL BUILDING AGREEMENT

- | | |
|---|--|
| 1 | Interpretation (A1-A7) |
| 2 | Clause 1.0 - Definitions and interpretation |
| 3 | <u>Pricing of bills of quantities</u> |

Carried to Collection

SECTION 1 : PRELIMINARIES & GENERAL
 Bill No.1 : Preliminaries

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BILL OF QUANTITIES

- | | | | | |
|---|---|--|--|--|
| 1 | The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities | | | |
| 2 | Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained | | | |
| 3 | Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary | | | |
| 4 | <u>Abbreviated descriptions</u> | | | |
| 5 | The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice | | | |
| 6 | <u>Legal status of contractor</u> | | | |
| 7 | If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then: | | | |

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SECTION 1 : PRELIMINARIES & GENERAL
Bill No.1 : Preliminaries

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1	1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement			
2	2. These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons			
3	3. The contractor shall not alter its composition or legal status without the prior written consent of the employer			
4	F:..... V:..... T:.....	Item		
5	<u>Clause 2.0 - Law, regulations and notices</u>			
6	F:..... V:..... T:.....	Item		
7	<u>Clause 3.0 - Offer and acceptance</u>			
8	F:..... V:..... T:.....	Item		
9	<u>Clause 4.0 - Cession and assignment</u>			
10	F:..... V:..... T:.....	Item		
11	Clause 5.0 - Documents			
12	Value Added Tax			
13	Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)			
14	Electronic issue of drawings			
15	All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]			
16	F:..... V:..... T:.....	Item		
17	Clause 6.0 - Employer's agents			
18	Delegated authority			
Carried to Collection SECTION 1 : PRELIMINARIES & GENERAL Bill No.1 : Preliminaries			R	

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
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1	The authority of the principal agent to issue contract instructions [17.1] and perform duties for specific aspects of the works is delegated to agents as follows [6.2]. This does not preclude the principal agent from issuing such contract instructions:				
2	1. Architect				
3	Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA				
4	1.1 Duties [6.2] :				
5	The architect is responsible for the architectural design, functional design and quality inspection of the works				
6	1.2 Contract instructions [6.2; 17.1]				
7	1.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement				
8	1.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works				
9	1.2.3 The site [13.0]				
10	1.2.4 Compliance with the law, regulations and bylaws [2.1]				
11	1.2.5 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works				
12	1.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]				
13	1.2.7 Removal or re-execution of work				
14	1.2.8 Removal or substitution of any materials and goods				
15	1.2.9 Protection of the works				
Carried to Collection SECTION 1 : PRELIMINARIES & GENERAL Bill No.1 : Preliminaries				R	

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1	1.2.10 Making good physical loss and repairing damage to the works [23.2.2]				
2	1.2.11 Rectification of defects [21.2]				
3	1.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion				
4	1.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums				
5	1.2.14 Appointment of a subcontractor [14.0; 15.0]				
6	1.2.15 Work by direct contractors [16.0]				
7	1.2.16 On suspension or termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]				
8	2. Quantity surveyor				
9	2.1 Duties [6.2]				
10	The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works				
11	2.2 Contract instructions [6.2; 17.1]				
12	2.2.1 No contract instructions delegated to the quantity surveyor				
13	3. Civil and structural engineer				
14	Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA				
15	3.1 Duties [6.2]				
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SECTION 1 : PRELIMINARIES & GENERAL					
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1	4. Mechanical engineer			
2	Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA			
3	4.1 Duties [6.2]			
4	The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions			
5	4.2 Contract instructions [6.2; 17.1]			
6	4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement			
7	4.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
8	4.2.3 Compliance with the law, regulations and bylaws [2.1]			
9	4.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works			
10	4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]			
11	4.2.6 Removal or re-execution of work			
12	4.2.7 Removal or substitution of any materials and goods			
13	4.2.8 Protection of the works			
14	4.2.9 Making good physical loss and repairing damage to the works [23.2.2]			
<p style="text-align: right;">Carried to Collection</p> <p>SECTION 1 : PRELIMINARIES & GENERAL</p> <p>Bill No.1 : Preliminaries</p>				

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1	5.2.6 Removal or re-execution of work			
2	5.2.7 Removal or substitution of any materials and goods			
3	5.2.8 Protection of the works			
4	5.2.9 Making good physical loss and repairing damage to the works [23.2.2]			
5	5.2.10 Rectification of defects [21.2]			
6	5.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
7	5.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums			
8	6. Wet services engineer			
9	Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA			
10	6.1 Duties [6.2]			
11	The wet services engineer is responsible for all aspects of wet services engineering design and quality inspection of the works			
12	6.2 Contract instructions [6.2; 17.1]			
13	6.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement			
14	6.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
15	6.2.3 Compliance with the law, regulations and bylaws [2.1]			
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1	7.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
2	7.2.3 Compliance with the law, regulations and bylaws [2.1]			
3	7.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works			
4	7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]			
5	7.2.6 Removal or re-execution of work			
6	7.2.7 Removal or substitution of any materials and goods			
7	7.2.8 Protection of the works			
8	7.2.9 Making good physical loss and repairing damage to the works [23.2.2]			
9	7.2.10 Rectification of defects [21.2]			
10	7.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
11	7.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums			
12	F:..... V:..... T:.....	Item		
13	Clause 7.0 - Design responsibility			
14	F:..... V:..... T:.....	Item		
15	Insurances and securities (A8-A11)			
16	Clause 8.0 - Works risk			
17	F:..... V:..... T:.....	Item		
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1	The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2]			
2	F:..... V:..... T:.....	Item		
3	Clause 24.0 - Penalty for late or non-completion			
4	F:..... V:..... T:.....	Item		
5	Payment (A25 - A27)			
6	Clause 25.0 - Payment			
7	Prices submitted			
8	Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing			
9	F:..... V:..... T:.....	Item		
10	Clause 26.0 - Adjustment of the contract value and final account			
11	Fluctuations in costs			
12	All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [26.9.5]			
13	Tenant installation/user requirements delayed			
14	There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to practical completion			
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1	F:..... V:..... T:.....	Item		
2	Clause 2.4 - Ordering of materials and goods			
3	F:..... V:..... T:.....	Item		
4	Previous work and adjoining properties (B3)			
5	Clause 3.1 - Previous work - dimensional accuracy			
6	F:..... V:..... T:.....	Item		
7	Clause 3.2 - Previous work - defects			
8	F:..... V:..... T:.....	Item		
9	Clause 3.3 - Inspection of adjoining properties			
10	F:..... V:..... T:.....	Item		
11	The site (B4)			
12	Clause 4.1 - Handover of site in stages			
13	F:..... V:..... T:.....	Item		
14	Clause 4.2 - Enclosure of the works			
15	Enclosure of work to be as prescribed by the Architect. in the absence of prescribed specification the contractor to allow as per the regulations			
16	F:..... V:..... T:.....	Item		
17	Clause 4.3 - Geotechnical and other investigations			
18	F:..... V:..... T:.....	Item		
19	Clause 4.4 - Encroachments			
20	F:..... V:..... T:.....	Item		
21	Clause 4.5 - Existing premises occupied			
22	F:..... V:..... T:.....	Item		
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1	Clause 4.6 - Services - known			
2	F:..... V:..... T:.....	Item		
3	Management of contract (B5)			
4	Clause 5.1 - Management of the works			
5	F:..... V:..... T:.....	Item		
6	Clause 5.2 - Progress meetings			
7	F:..... V:..... T:.....	Item		
8	Clause 5.3 - Technical meetings			
9	F:..... V:..... T:.....	Item		
10	Samples, shop drawings and manufacturer's instructions (B6)			
11	Clause 6.1 - Samples of materials			
12	F:..... V:..... T:.....	Item		
13	Clause 6.2 - Workmanship samples			
14	F:..... V:..... T:.....	Item		
15	Clause 6.3 - Shop drawings			
16	F:..... V:..... T:.....	Item		
17	Clause 6.4 - Compliance with manufacturer's instructions			
18	F:..... V:..... T:.....	Item		
19	Deposits and fees (B7)			
20	Clause 7.1 - Deposits and fees			
21	F:..... V:..... T:.....	Item		
22	Temporary services (B8)			
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1	F:..... V:..... T:.....	Item	
2	Clause 11.4 - Notice before covering work		
3	F:..... V:..... T:.....	Item	
4	Clause 11.7 - Works cleaning and clearing		
5	F:..... V:..... T:.....	Item	
6	Clause 11.8 - Vermin		
7	F:..... V:..... T:.....	Item	
8	Clause 11.9 - Overhand work		
9	F:..... V:..... T:.....	Item	
10	Clause 11.10 - Tenant installations		
11	F:..... V:..... T:.....	Item	
12	Clause 11.11 - Advertising		
13	F:..... V:..... T:.....	Item	
<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
14	Warranties for materials and workmanship		
15	Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract		
16	The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so		
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1	The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor			
2	F:..... V:..... T:.....	Item		
3	Overtime			
4	Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer			
5	F:..... V:..... T:.....	Item		
6	Cooperation of the contractor for cost management			
7	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget			
8	F:..... V:..... T:.....	Item		
9	Overloading			
10	The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense			
11	F:..... V:..... T:.....	Item		
12	Propping of floors below			
Carried to Collection			R	
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1	The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor			
2	F:..... V:..... T:.....	Item		
3	Testing of flat roof waterproofing for watertightness			
4	Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing			
5	F:..... V:..... T:.....	Item		
6	Broad based black economic empowerment (BBBEE)	N/A		
7	Tenders submitted will be evaluated taking into account their empowerment rating			
8	The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works			
9	The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating			
10	F:..... V:..... T:.....	Item		
11	Advertising rights			
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1	<p>C4 IMPORTED MATERIALS AND EQUIPMENT</p> <p>Where imported items are listed in the tender documents, the Bidder 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 to be completed by Bidder).</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable). F:..... V:..... T:.....</p>	Item		
2	<p>C5 VIEWING THE SITE IN SECURITY AREAS</p> <p>The Bidder must arrange with the responsible officer to obtain permission to enter the site for tendering purposes F:..... V:..... T:.....</p>	N/A		
3	<p>C6 COMMENCEMENT OF WORKS IN SECURITY AREAS</p> <p>As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account.</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	N/A		
4	<p>C7 ENTRANCE PERMITS TO SECURITY AREAS</p> <p>IF the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer.</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	N/A		
	Carried to Collection		R	
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1 C10 OCCUPATIONAL HEALTH AND SAFETY ACT

The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).

It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**.

The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non compliance, the **principal agent**, notwithstanding the provisions of clause A3.10 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

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

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

Item

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SECTION 1 : PRELIMINARIES & GENERAL
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1	<p>C11 REPORTING BY CONTRACTOR</p> <p>The Contractor is required to complete the CONTRACTOR MONTHLY REPORT which is to be submitted together with the Contractor's payment claim. Payment of the Contractor is conditional on this information being accurate and timeously provided. Payment shall be subject to the Employer giving the Contractor a tax invoice for the amount due. The Contractor is to take note of the following requirements -At the bottom of the CONTRACTOR MONTHLY REPORT, the Site Agent, Clerk of Works, CLO or Contractor must sign the document as proof that the people indicated have worked the number of days</p> <p>F:..... V:..... T:.....</p>	Item		
2	<p>C12 LOCAL LABOUR AND LOCAL BUILDING MATERIALS</p> <p>It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. 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 local labour. 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 furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall, in general, maximise the involvement of the local community.</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>SECTION 1 : PRELIMINARIES & GENERAL Bill No.1 : Preliminaries</p>		R	

1	C13 LOCAL BUILDING MATERIALS			
	<p>Preference shall be given to the supply of materials produced or manufactured in the Eastern Cape Province provided that:</p> <p>(a) Such materials comply in all respects with the specific requirements of PW371 specification.</p> <p>(b) The availability of such materials shall not adversely affect the desired progress of the specific works.</p> <p>(c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof.</p> <p>F:..... V:..... T:.....</p>	Item		
2	C14 ADMINISTRATION			
	<p>The Contractor must allow for all costs (including any profit and/or attendance) associated with the administration, appointment, training and/or payment of the CLO, Candidate Professionals, Students, EPWP Beneficiaries, APTCOD Learners, Clerk of Works and Steering Committee Members as applicable and included in this tender document. This item must be priced within rates or preliminaries, there is no separate line item for this (refer to PROVISIONAL SUMS & SOCIAL SECTIONS OF THIS BOQ)</p> <p>No additional claims in this regard shall be entertained.</p> <p>F:..... V:..... T:.....</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>SECTION 1 : PRELIMINARIES & GENERAL Bill No.1 : Preliminaries</p>		R	

1	<p>C15 EMPLOYMENT OF SMME CONTRACTORS AS "SUB-CONTRACTORS" TO THE PRINCIPAL CONTRACTOR</p> <p><i>The Bidders must allow for all costs applicable that they may feel will be associated with the successful integration, development of and completion of SMME Sub-contractors' work to the approval of the Principal Agent on this project.</i></p> <p><i>Approximately 33% of the project value must be allocated to SMME Sub-contractors. Successful contractor will be required to supply verified monthly statements/schedules (verified by their auditors) indicating the % achieved for that month. A cumulative schedule also needs to be maintained for each month that has passed.</i></p> <p><i>Failure by a main contractor/service provider to comply with the provisions of this policy in respect of meaningful participation of SMME's, will result in the application of a penalty.</i></p> <p>The penalty applicable will be equal to the value of the shortfall.</p> <p><i>Any additional costs that the bidders may deem applicable due to the use and implementation of 40% of SMME Subcontractors programme, including the following but not limited to should be allowed for in this item (Clause C16), no claim for any additional costs attributable to the incorporation and development of SMME Sub-contractors on this project will be entertained after the tenders are submitted.</i></p> <p>1. Contractor's profit & Attendance 2. SMME's preliminaries & General including OHS</p> <p>F:..... V:..... T:.....</p>	Item		
	<p>Carried to Collection</p> <p>SECTION 1 : PRELIMINARIES & GENERAL</p> <p>Bill No.1 : Preliminaries</p>		R	

1	<p>C16 SMME CONSTRUCTION MENTOR Provision for pricing for the employment, on a full time basis for the duration of the contract, an SMME Construction Mentor. All costs associated with the completion of the SMME Construction Mentor duties, provision of office facilities and tools of trade are deemed to be priced hereunder. No additional claims in this regard shall be entertained. The above is in strict accordance with the Specification for the Employment of SMME Sub-contractors and all costs should be included in this item for the employment of the Mentor.</p> <p>F:..... V:..... T:.....</p> <p><u>SUMMARY OF CATEGORIES</u></p>				
2	Category : Fixed R:.....	Item			
3	Category : Value R:.....	Item			
4	Category : Time R:.....	Item			
<p style="text-align: right;">Carried to Collection</p> <p>SECTION 1 : PRELIMINARIES & GENERAL Bill No.1 : Preliminaries</p>					<p>R</p>

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SECTION 2

BUILDING WORKS

BILL No. 1

FOUNDATIONS (PROVISIONAL)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section

Proprietary Products In Descriptions

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

Nature Of Material To Be Excavated

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"

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

Carried to Collection

R

SECTION 2 : BUILDING WORKS

Bill No.1 : Foundations (Provisional)

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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator.

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

Site Clearance

- | | |
|---|--|
| 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	406
----	-----

EXCAVATIONS, FILLING, ETC

- | | |
|---|---|
| 2 | Excavate in earth to open face over site to reduce levels. |
| 3 | Excavate in earth for surface trenches not exceeding 2000mm deep. |
| 4 | Excavate in earth for ground beams not exceeding 2000mm deep. |

m3	201
m3	83
m3	5

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SECTION 2 : BUILDING WORKS
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1	Excavate in earth for toilet pit exceeding 2000mm and not exceeding 4000mm deep.	m3	61	
2	Extra over excavations in earth to trenches for excavation in soft rock.	m3	12	
3	Ditto, but in hard rock.	m3	6	
4	Excavate in earth for working space (at Contractor's discretion) not exceeding 1300mm deep to side of the building of brick wall, fill and consolidate spoil on completion. (Distance from face of wall to side of excavation is 170mm).	m2	32	
5	Extra over all excavations for carting away from the site all surplus excavated material.	m3	350	
6	Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.	m2	285	
7	Earth filling supplied G5 Material by the Contractor, compacted to 93% Mod AASHTO density.	m3	241	
8	G7 type filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density to platforms, etc.	m3	201	
9	Allow for keeping excavations free from water.		Item	
10	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	338	
11	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated in 30mm thick blinding layer under floors, etc.	m3	18	
12	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	338	
<u>CONCRETE (CPAP Work Group No. 110 Unless Otherwise Stated)</u>				
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Bill No.1 : Foundations (Provisional)				

<u>Unreinforced Cement Concrete (10MPa) In</u>					
1	Blinding.	m3	2		
2	Filling in cavity walls.	m3	7		
<u>Reinforced Cement Concrete (25MPa) In</u>					
3	Footings.	m3	27		
4	Surface beds.	m3	42		
5	Toilet pit slab.	m3	21		
6	Toilet pit beams.	m3	4		
7	Thickening.	m3	3		
8	Concrete seats	m3	18		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing Top Surfaces Of Concrete Smooth With A Wood float</u>					
9	Surface beds, slabs, etc.	m2	434		
<u>MOVEMENT JOINTS, ETC</u>					
<u>Bitumen Impregnated Soft board Expansion Joints</u>					
10	Joint formed of one layer 10mm thick soft board set between vertical concrete or brick surfaces.	m	154		
<u>FORMWORK (CPAP Work Group No. 111 Unless Otherwise Stated)</u>					
<u>Rough Formwork To</u>					
11	Soffit of pit toilet slabs.	m2	35		
<u>FORMWORK (CPAP Work Group No. 111 Unless Otherwise Stated)</u>					
Carried to Collection				R	
SECTION 2 : BUILDING WORKS					
Bill No.1 : Foundations (Provisional)					

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R

[illegible]

SECTION 2

BUILDING WORKS

BILL No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section

Proprietary Products In Descriptions

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

Carried to Collection

R

SECTION 2 : BUILDING WORKS

Bill No.2 : Concrete, Formwork and Reinforcement

Cost Of Tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests 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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator. All concrete work shall comply to SABS 1200G

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

Carried to Collection

SECTION 2 : BUILDING WORKS

Bill No.2 : Concrete, Formwork and Reinforcement

R

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described					
<u>CONCRETE (CPAP Work Group No. 110 Unless Otherwise Stated)</u>					
<u>TESTSNOTE: 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>					
1	Concrete test cubes size 150 x 150 x 150mm overall including testing. (Provisional).	No	18		
<u>CONCRETE</u>					
<u>Reinforced Cement Concrete (25MPa) In</u>					
2	Slabs including beams and inverted beams.	m3	5		
3	Brick pier infill.	m3	0.3		
<u>FORMWORK (CPAP Work Group No. 111 Unless Otherwise Stated)</u>					
<u>Rough Formwork To</u>					
4	Sides and soffits of slabs and beams.	m2	43		
5	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	42		
<u>REINFORCEMENT (CPAP Work Group No. 114 Unless Otherwise Stated)</u>					
<u>Mild Steel Bar Reinforcement To Structural Concrete Work</u>					
6	8mm Diameter bars.	t	0.18		
<u>High Tensile Steel Bar Reinforcement To Structural Concrete Work</u>					
7	10mm Diameter bars.	t	0.04		
Carried to Collection				R	
SECTION 2 : BUILDING WORKS					
Bill No.2 : Concrete, Formwork and Reinforcement					

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDōE P Nu : P9007203
 BILL OF QUANTITIES

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Bill No.2 : Concrete, Formwork and Reinforcement				
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Bill No.2 : Concrete, Formwork and Reinforcement				

SECTION 2

BUILDING WORKS

BILL No. 3

MASONRY (CPAP Work Group No. 118)
Unless Otherwise Stated)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section

Proprietary Products In Descriptions

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

Sizes In Descriptions

Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick

Cement Mortar

Unless otherwise described, all brickwork shall be built in 1:6 cement mortar

Carried to Collection

SECTION 2 : BUILDING WORKS

Bill No.3 : Masonry

SECTION 2 : BUILDING WORKS
Bill No.3 : Masonry

BILL OF QUANTITIES

m	35
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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
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Bill No.3 : Masonry				
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SECTION 2 : BUILDING WORKS				
Bill No.3 : Masonry				

SECTION 2

BUILDING WORKS

BILL No. 4

WATERPROOFING(CPAP Work Group No. 120 Unless Otherwise Stated)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

Waterproofing

Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs

JOINT SEALANTS, ETC.

- | | |
|---|--|
| 1 | Seal and point around aluminium and/or metal window frames with an approved external quality, sealing compound applied with a pressure caulking gun. |
|---|--|

m

150

Carried to Collection

R

SECTION 2 : BUILDING WORKS

Bill No.4 : Waterproofing

1	Rake out 10mm wide joint filler on vertical surfaces of brickwork or concrete for a depth of 15mm and clean, prime and caulk with an approved external quality polysulphide ditto.	m	92		
SECTION 2 : BUILDING WORKS Bill No.4 : Waterproofing		Carried to Collection		R	

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SECTION 2

BUILDING WORKS

BILL No. 5

**ROOF COVERINGS, ETC.(CPAP Work
Group No. 122 Unless Otherwise Stated)**

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section

Proprietary Products In Descriptions

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

Fixing

Fixing shall be done according to SABS 1200HB with minimum 150mm end laps where roof pitch exceeds 15 degree and 250mm for other roof pitches

Guarantee

All roof coverings and side cladding are to be installed to comply with SABS Code of Practice 0237 where applicable. All roof sheeting shall be laid under a 5 year guarantee for site workmanship and water tightness

Carried to Collection

R

SECTION 2 : BUILDING WORKS

Bill No.5 : Roof Coverings

PROFILED SHEETING OF METAL, FIBRE-CEMENT, PLASTICS, ETC.

0,8mm Thick ISQ300 Z275 IBR 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	567
2	0.8mm Thick ridge capping 460mm girth.	m	67

ROOF INSULATION

Fibreglass Reinforced Aluminium Foil Faced Resin Bonded Glass Fibre Flexible Building Insulation

3	Sisalation FR430 reinforced aluminium foil insulation with 150mm wide laps at all joints, tightly strained and stapled to top of timber rafters under timber purlins.	m2	567
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RAINWATER GOODS

Seamless "Signal White Powder Coated" Finished Aluminium

4	150 x 125mm Eaves gutters.	m	125
5	Extra over gutter for stopped end.	No	8
6	Extra over 100 x 70mm eaves gutter for outlet for 100 x 70mm pipe.	No	6
7	100 x 70mm Rectangular section fluted rainwater pipe fixed 25mm clear of walls with galvanised sheet iron ears screwed to and including 150 x 70 x 22mm chamfered and oiled hardwood blocks plugged to wall.	m	18
8	Extra over rainwater pipe for shoe.	No	6

Carried to Collection

SECTION 2 : BUILDING WORKS
 Bill No.5 : Roof Coverings

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

[illegible]

Bill No.6 : Carpentry & Joinery

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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BILL OF QUANTITIES

NOTE: The Contractor will be required to provide a certificate of approval signed by a registered engineer certifying that the trusses have been designed, manufactured and installed in accordance with relevant SANS specifications

ROOFS, ETC

Sawn Pine

1	38 x 76mm Bracing.	m	55
2	38 x 114mm Plate.	m	142
3	38 x 228mm Gangboarding.	m	65
4	38 x 50mm Cleat 150mm long with two splay cut ends and twice brass screwed on to end of truss rafter.	No	191

Sundries

5	Hurricane clips spiked to truss and purlin.	No	191
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ROOF TRUSSES

Prefabricated Timber Roof Construction At A Maximum Of 1200mm Centres, 22.5 Degree Pitch With A 600mm Overhang, Designed For Metal Roof, Including 76 x 50mm S.A. Pine Purlins At Maximum 1020mm Centre To Centre, 152 x 76mm Top And Bottom Chord, 152 x 76mm Diagonals, Tilting Fillet, Runners, Bracing, Cleats, Etc

6	152 x 76mm Grade 7 S.A pine top and bottom chord.	m	1,014
7	76 x 50mm Grade 7 S.A pine purlins.	m	845
8	114 x 38mm Grade 7 S.A pine diagonals.	m	319
9	114 x 38mm Grade 7 S.A pine verticals.	m	87

EAVES AND VERGES

Carried to Collection

R

SECTION 2 : BUILDING WORKS
Bill No.6 : Carpentry & Joinery

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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BILL OF QUANTITIES

44mm Meranti Framed, Ledged And Braced Half Batten Door, With 6mm Smooth Tempered Hardboard Flush Panel Internally With Rebated Meeting Styles. 108 x 44mm Top Rails And Styles. 220 x 22mm Lock Rail And 220 x 44mm Bottom Rail. 22mm V-Jointed Meranti T & G Boarding. Standard 70 x 44mm H/W Weather-Board To Bottom Edge Of Doors To External Door Face

1	Door Type D2 - Door size overall 813 x 2032mm high.	No	1
2	Door Type D6 - Door size overall 813 x 2032mm high.	No	1
3	Door Type D8 - Door size overall 813 x 700mm high.	No	6

FRAMES, ETC

Hardwood

4	108 x 69mm rebated Meranti frame with 19mm quadrant trim externally.	m	60
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Dado Rail

5	144 x 16mm SA Pine dado rail centred 765mm above finished floor level.	m	174
---	--	---	-----

Carried to Collection

R

SECTION 2 : BUILDING WORKS
Bill No.6 : Carpentry & Joinery

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCBOBO
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Bill No.6 : Carpentry & Joinery				
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Bill No.6 : Carpentry & Joinery				

SECTION 2

BUILDING WORKS

BILL No. 7

**FITTINGS(CPAP Work Group No. 126
Unless Otherwise Stated)**

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Referencing

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

1	Wall shelving 1910mm high x 380mm wide with 300mm high spacing in between shelves as per drawing 1613.7-AR-TEN-611 REV0.	m	12
2	L-Shaped teachers desk 3870mm x 760mm high x 600mm wide as per drawing 1613.7-AR-TEN-611 REV0.	No	2
3	Pigeon holes shelving 850mm high x 475mm wide with 347mm high spacing in between shelves as per drawing 1613.7-AR-TEN-610 REV0.	m	18

Carried to Collection

SECTION 2 : BUILDING WORKS

Bill No.7 : Fittings

BILL OF QUANTITIES

SECTION 2 : BUILDING WORKS
Bill No.7 : Fittings

SECTION 2 : BUILDING WORKS

Bill No.7 : Fittings

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SECTION 2 : BUILDING WORKS

Bill No.7 : Fittings

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SECTION 2

BUILDING WORKS

BILL No. 8

**CEILINGS, PARTITIONS AND ACCESS
FLOORING (CPAP Work Group No. 129
Unless Otherwise Stated)**

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

Descriptions:

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.

All items in this section are to be fixed, unless otherwise described, by spiking to wood.

Carried to Collection

R

SECTION 2 : BUILDING WORKS

Bill No.8 : Ceilings, Partitions & Access Flooring

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres, and where described as "bolted" the bolts have been given elsewhere

NAILED UP CEILING

6.0mm Thick Fibre Cement Ceiling Boards Laid In A Staggered Pattern With 'H' Profile Jointing Strips, Fixed With Dri-Wall Screws To Branderling. Screw Heads To Be Filled And Sanded Smooth

- | | | | |
|---|--|----|-----|
| 1 | Ceilings including fixed to 38 x 50mm battens at 400mm centres using 38 x 38mm sawn softwood branderling at 400mm centres generally in one direction. | m2 | 463 |
| 2 | 600 x 600mm Trap door of 38 x 114mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in existing opening. | No | 2 |

CORNICES, ETC

Gypsum Plaster Board

- | | | | |
|---|----------------------------|---|-----|
| 3 | 75mm Gypsum coved cornice. | m | 198 |
|---|----------------------------|---|-----|

INSULATION

- | | | | |
|---|--|----|-----|
| 4 | 100mm Thick flexible polyster insulatiin closely fitted and laid on top ceiling between metal and suspension system. | m2 | 204 |
|---|--|----|-----|

ACOUSTIC FOLDING STACKING DOOR

Carried to Collection

R

SECTION 2 : BUILDING WORKS
 Bill No.8 : Ceilings, Partitions & Access Flooring

<p><u>Stack Partition Panel Door With Chalkboard Paint Installed As Per Manufacturer's Instructions. Supply & install Operable Partition With An Stc 48 To Suit Opening With Panels MDF Faced With A Black Chalkboard Paint, Including The Necessary Top & Bottom Retractable Seals, Interlocking Vertical Seals & End Lever Closure In Natural Anodized Surround Frame, Suspended From Track & Carriers Type 38 Including All Necessary Suspension Components, Including An Acoustic Baffle Of Equal Stc To The Panels Fitted To & Above The Track Within The Ceiling Void. Refer To Proposed or Equal Approved Paint Specification Document installed As Per Manufacturer's Instructions</u></p>				
<p>1 Door D7 - Folding stacking door size 6000 x 2520mm high as per drawing 1613.8-AR-TEN-813 REV0.</p>	<p>No</p>	<p>1</p>		
<p>Carried to Collection</p>			<p>R</p>	
<p>SECTION 2 : BUILDING WORKS Bill No.8 : Ceilings, Partitions & Access Flooring</p>				

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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SECTION 2 : BUILDING WORKS				
Bill No.8 : Ceilings, Partitions & Access Flooring				
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SECTION 2 : BUILDING WORKS				
Bill No.8 : Ceilings, Partitions & Access Flooring				

Bill No.9 : Floor Coverings, Plastic Linings, Etc.

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Three Coats Silk Matt Or Gloss Sealer

SECTION 2 : BUILDING WORKS
Bill No.9 : Floor Coverings, Plastic Linings, Etc.

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
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SECTION 2 : BUILDING WORKS				
Bill No.9 : Floor Coverings, Plastic Linings, Etc.				
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Bill No.9 : Floor Coverings, Plastic Linings, Etc.				

SECTION 2

BUILDING WORKS

BILL No. 10

**IRONMONGERY(CPAP Work Group No. 132
Unless Otherwise Stated)**

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section

Proprietary Products In Descriptions

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

Referencing

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

Descriptions:

Ironmongery is fixed to timber unless otherwise described

IRONMONGERY TO DOORS, FRAMES, ETC

Carried to Collection

R

SECTION 2 : BUILDING WORKS
Bill No.10 : Ironmongery

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDofE P Nu : P9007203
BILL OF QUANTITIES

<u>IRONMONGERY: 01</u>					
1	102x75x3mm Two Ball Bearing Butt Hinge (Stainless Steel).	No	6		
2	Lever handle on plate with Cylinder cutout (Satin Chrome).	No	2		
3	Cylinder Sash Lock (Stainless Steel).	No	2		
4	Rebate Kit for D036S, D037D (Nickel Plated).	No	2		
5	66mm five pin Euro-profile Double Cylinder Master Keyed (Satin Nickel).	No	2		
6	153mm Flush Bolt With heel (Satin Chrome).	No	4		
7	Halcast door stop and holder.	No	4		
<u>IRONMONGERY: 02</u>					
8	66mm five pin Euro-profile Double Cylinder Master Keyed (Satin Nickel).	No	1		
9	ISEO 55mm bakset euro profile cylinder security lock.	No	1		
10	Howick stainless steel heavy duty spring clip.	No	1		
Carried to Collection				R	
SECTION 2 : BUILDING WORKS					
Bill No.10 : Ironmongery					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

<u>IRONMONGERY: 03</u>					
1	TS73V EN 2-4 Regular Arm DELAYED ACTION Door Closer. Pull Side Fixing (Silver).	No	1		
2	382x32mm Straight Tubular Pull Handle BTB (Stainless Steel) (BTB Fixing Sets included).	No	1		
3	150x150mm MALE/FEMALE sign (Stainless Steel).	No	1		
4	150x150mm DISABLED PERSONS sign (Stainless Steel).	No	1		
<u>IRONMONGERY: 04</u>					
5	102x75x3mm Two Ball Bearing Butt Hinge (Stainless Steel).	No	8		
6	Lever handle on plate with Cylinder cutout (Satin Chrome).	No	4		
7	Cylinder Sash Lock (Stainless Steel).	No	4		
8	66mm five pin Euro-profile Double Cylinder Master Keyed (Satin Nickel).	No	4		
9	Wall or Floor mounted rubber door stop.	No	4		
<u>IRONMONGERY: 05</u>					
10	102x75x3mm Two Ball Bearing Butt Hinge (Stainless Steel).	No	2		
Carried to Collection				R	
SECTION 2 : BUILDING WORKS					
Bill No.10 : Ironmongery					

R

Carried to Collection

SECTION 2 : BUILDING WORKS
Bill No.10 : Ironmongery

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

1	Adjustable Roller Bolt (Stainless Steel).	No	1		
2	Bathroom Deadlock (Stainless Steel).	No	1		
3	Disabled WC indicator (Red & White) and turnknob for physically impaired (Stainless Steel).	No	1		
4	66mm Euro-profile Bathroom / Privacy Cylinder (Satin Nickel).	No	1		
5	150x150mm DISABLED PERSONS sign (Stainless Steel).	No	1		
6	200 x 1.2mm thick Grade 430 stainless steel kick plate.	No	2		
7	Wall or Floor mounted rubber door stop.	No	1		
<u>IRONMONGERY: 10</u>					
8	ISEO 55mm bakset euro profile cylinder security lock.	No	1		
9	66mm five pin Euro-profile Double Cylinder Master Keyed (Satin Nickel).	No	1		
10	Howick stainless steel heavy duty spring clip.	No	1		
<u>BATHROOM FITTINGS</u>					
11	Stainless steel grab rails - 32 Dia. - 1x Dogleg side rail with center flange. 1x 750mm long back rail.	No	1		
Carried to Collection				R	
SECTION 2 : BUILDING WORKS					
Bill No.10 : Ironmongery					

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Carried to Collection

STEEL LOCKERS, CUPBOARDS, ETC

SECTION 2 : BUILDING WORKS
Bill No.10 : Ironmongery

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
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SECTION 2 : BUILDING WORKS				
Bill No.10 : Ironmongery				
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Bill No.10 : Ironmongery				

SECTION 2

BUILDING WORKS

BILL No. 11

**METALWORK(CPAP Work Group No 136
Unless Otherwise Stated)**

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section

Proprietary Products In Descriptions

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

Referencing

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

SUNDRY METALWORK

Mild Steel

1	Purpose-made towel rail 600mm wide.	No	2
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Carried to Collection

SECTION 2 : BUILDING WORKS
Bill No.11 : Metalwork

<u>Weldmesh</u>					
1	4mm Weldmesh wire with 50 x 50mm aperture tack welded to and including galvanised steel frame and 100 x 60 x 2mm rectangular hollow steel section welded to base plate at 2000mm centre.	m	8		
<u>MILD STEEL GATES</u>					
<u>Hot Dipped Galvanised After Fabrication Mild Steel Welded Screens And Gates With Frames, Mitred Intersections, Ironmongery, Etc And Fixed Complete All As Attached Drawings</u>					
2	Security gate type G-01 as per drawing 1613.8-AR-TEN-820- REV1 size 1730 x 2125mm high supplied and installed complete with ironmongery.	No	2		
3	Security gate type G-02 as per drawing 1613.8-AR-TEN-820- REV1 size 927 x 2125mm high supplied and installed complete with ironmongery.	No	2		
<u>ROLLERSTYLE ADD ON INTERNAL SURFACE MOUNT PRE-PAINTED ALUMINIUM ROLL-UP DOORS</u>					
4	Push up operation roller shutter door as per drawing 1613.8-AR-TEN-812- REVO complete with overhead gear, guides, fixing bolts, etc., to suit clear opening size 1000 x 1325mm fixed in position and including mortices in brickwork or concrete for fixing bolts.	No	1		
<u>ALUMINIUM WINDOWS, DOORS, ETC ALL AS ATTACHED DRAWINGS</u>					
<u>General:</u>					
All glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc. shall be designed, manufactured, supplied and installed in strict compliance with the 'Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA), General Specification for Architectural Aluminium and Glass Products February 2005 Edition' and SANS 10137.					
All descriptions shall be deemed to include transoms, mullions, etc. as per the Architect's drawings.					
Carried to Collection				R	
SECTION 2 : BUILDING WORKS					
Bill No.11 : Metalwork					

Design and installation:

The Sub-Contractor shall be required to design the entire installation, provide all labour, material, equipment and services required to complete the installation as specified herein.

The Sub-Contractor shall ensure that the necessary wind pressure provisions have been incorporated within the design criteria. The Sub-Contractor shall submit his wind design criteria to the Architect for inspection.

The Sub-Contractor shall allow for expansion of glass, framing, surrounding structures, etc.

The Sub-Contractor shall allow for and produce fully detailed workshop drawings including samples of all ironmongery within 14 working days of the Main Contractors request.

Fire resistance:

The installation shall conform to the local authorities resistance standards.

Protection and cleaning:

All aluminium must be protected against damage by covering with temporary casings (masking tape, plastic coatings, etc.) and against deterioration or discolouration caused by mortar, wax, paint, etc., all to the entire satisfaction of the Principal Agent. On completion all such protection shall be removed and work cleaned down and left in proper working order.

All glazing is to be protected from damage, breakage, scratches, etc. and allowances shall be made for polishing the glass as and when instructed by the Main Contractor.

The following work to be undertaken by the specialist approved by AAMSA.

Carried to Collection

SECTION 2 : BUILDING WORKS
 Bill No.11 : Metalwork

R

	<u>Purpose Made Powder Coated Aluminium Windows Complete With 'Sheerline' Industrial Sections Or Equal Approved Natural Anodised Frames In Brick Openings, Glazed With And Including 6,38mm Thick Opalescent Obscure Glass Installed As Per Manufacturer's Instructions. All Windows To Include 30 x 4mm Thick Galvanized Mild Steel Rectangular Frame And 6mm Diameter Vertical Galvanized Mild Steel Round Bars Securely Fixed To The Inside Of The Window Openings. All Holes To Be Pre-Drilled Before Hot Dipped Galvanizing</u>				
1	W5 - Window as per drawing 1613.7-AR-TEN-802-Rev0 size 600 x 980mm high comprises one fixed panel and one top hung opening.	No	7		
	<u>Purpose Made Powder Coated Aluminium Windows Complete With 'Sheerline' Industrial Sections Or Equal Approved Natural Anodised Frames In Brick Openings, Glazed With And Including 6,38mm Thick Clear Laminated Safety Glass Installed As Per Manufacturer's Instructions. All Windows To Include Burglar Bars Securely Fixed To The Inside Of The Window Openings. All Holes To Be Pre-Drilled Before Hot Dipped Galvanizing</u>				
2	W1- Window as per drawing 1613.8-AR-TEN-800-Rev0 size 1000 x 1490mm high comprises one fixed panel and one top hung opening.	No	11		
3	W2- Window as per drawing 1613.8-AR-TEN-800-Rev0 size 1000 x 1950mm high comprises one fixed panel and two top hung opening.	No	8		
4	W3- Window as per drawing 1613.8-AR-TEN-801-Rev0 size 680 x 980mm high comprises one fixed panel and one top hung opening.	No	4		
5	W4- Window as per drawing 1613.8-AR-TEN-801-Rev0 size 1300 x 980mm high comprises two fixed panel and two top hung opening.	No	1		
6	W6 - Window as per drawing 1613.8-AR-TEN-802-Rev0 size 750 x 1200mm high comprises two fixed panel.	No	2		
	Carried to Collection			R	
	SECTION 2 : BUILDING WORKS				
	Bill No.11 : Metalwork				

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SECTION 2

BUILDING WORKS

BILL No. 12

**PLASTERING(CPAP Work Group No. 142
Unless Otherwise Stated)**

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

SCREEDS

Cement (3:1) screeds finished smooth with a steel trowel on concrete to receive floor finishes

1	30mm Thick on floors.	m2	242
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Grind And Prime Existing Surface With 4 To 5mm Thick Self-Leveling Tal-Screed Master Or Equal Approved, In Strict Accordance With Manufacturer's Instructions, To Form An Even Surface To Receive Vinyl Sheetting (Elsewhere Measured)

2	Self levelling screed.	m2	242
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Carried to Collection

SECTION 2 : BUILDING WORKS

Bill No.12 : Plastering

INTERNAL PLASTER

**One Coat Cement Plaster Minimum 15mm Thick
 (4:1) Finished Smooth With A Steel Float On
 Brickwork**

1	Brick vertical surfaces.	m2	310
2	In narrow widths.	m2	46

EXTERNAL PLASTER

**Two coats cement plaster minimum 30mm thick
 (5:1) steel floated including all labours on:**

3	Concrete vertical surfaces.	m2	53
4	Brick vertical surfaces.	m2	187
5	In narrow widths.	m2	15

Carried to Collection

SECTION 2 : BUILDING WORKS
 Bill No.12 : Plastering

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

[illegible]

SECTION No. 2

BUILDING WORKS

BILL No. 13

TILING(CPAP Work Group No. 144 Unless Otherwise Stated)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

Descriptions:

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.

Carried to Collection

SECTION 2 : BUILDING WORKS

Bill No.13 : Tiling

Fixing

Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat

Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon") range of products as recommended by the manufacturer of the tiles

WALL TILING

Glazed Wall Tiles Size 150 x 150mm Fixed With Adhesive And Jointed And Pointed With Flush Joints In Grout On Plaster (Elsewhere Measured)

1	On walls.	m2	8	
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Carried to Collection

R

SECTION 2 : BUILDING WORKS
 Bill No.13 : Tiling

SECTION 2 : BUILDING WORKS			
Bill No.13 : Tiling			
<u>COLLECTION</u>			
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	93		
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SECTION 2 : BUILDING WORKS			
Bill No.13 : Tiling			

SECTION 2

BUILDING WORKS

BILL No. 14

PLUMBING & DRAINAGE (PROVISIONAL)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

SANITARY FITTINGS

NOTE:

All fittings butting up against wall or floor finishes are to be sealed with an approved silicone sealer to the Architects satisfaction.

Stainless Steel Sinks, Drainers And Urinals

Carried to Collection

R

SECTION 2 : BUILDING WORKS

Bill No.14 : Plumbing & Drainage (Provisional)

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R

SECTION 2 : BUILDING WORKS
Bill No.14 : Plumbing & Drainage (Provisional)

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCBOBO
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SECTION 2 : BUILDING WORKS				
Bill No.14 : Plumbing & Drainage (Provisional)				
<u>COLLECTION</u>				
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		97		
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SECTION 2 : BUILDING WORKS				
Bill No.14 : Plumbing & Drainage (Provisional)				

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION 2</u>				
	<u>BUILDING WORKS</u>				
	<u>BILL No. 15</u>				
	<u>GLAZING(CPAP Work Group No. 150 Unless Otherwise Stated)</u>				
	<u>PREAMBLES</u>				
	For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Preambles</u>				
	The Standard 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>TO STEEL WITH PUTTY</u>				
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>				
	<u>6mm Thick Silvered Float Glass Copper Backed Mirrors With 10mm Bevelled And Polished Edges Holed For And Fixed With Chromium Plated Dome Capped Mirror Screws With Rubber Buffers To Plugs In Ceramic Tiled Wall</u>				
1	Mirror size 450 x 600mm high.	No	2		
	Carried Forward to Summary of Section No. 2			R	
	SECTION 2 : BUILDING WORKS				
	Bill No.15 : Glazing				

SECTION 2

BUILDING WORKS

BILL No. 16

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

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

Descriptions:

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.

PLASTERED WALLS

Carried to Collection

SECTION 2 : BUILDING WORKS

Bill No.16 : Paintwork

<u>Prepare And Apply One Coat Primer And Two Coats Acrylic PVA Suitable For Washing On</u>				
1	Internal plastered walls, columns, recessed bends, etc.	m2	301	
<u>Prepare And Apply One Coat Primer And Two Coats Acrylic PVA Suitable For Washing On</u>				
2	External plastered walls.	m2	187	
<u>WOOD</u>				
<u>Prepare And Apply One Coat Universal Undercoat And Two Finishing Coats Polyurethane Non-Grip Enamel On</u>				
3	General surfaces on doors.	m2	43	
4	Frames and linings.	m	60	
<u>Prepare And Apply One Coat Woodguard Polyurethane Undercoat And Two Finishing Coats Polyurethane Matt Varnish On</u>				
5	Skirtings, rails, etc in narrow girths.	m	350	
<u>Prepare And Apply Two Coats Carbolinium Wood Preservative On</u>				
6	Wall plate.	m2	15	
<u>FIBRE CEMENT</u>				
<u>Prepare, Stop And Apply One Coat Alkali Resistant Primer, One Coat Universal Undercoat And Two Finishing Coats Of Acrylic Emulsion Paint On</u>				
7	Fascia and barge boards.	m2	31	
<u>ON PLASTER BOARD</u>				
<u>Sand Down, Prepare And Apply One Coat Primer And Two Coats 'Eggshell Enamel' Paint On</u>				
8	Ceilings and cornices.	m2	463	
Carried to Collection				
SECTION 2 : BUILDING WORKS				
Bill No.16 : Paintwork				

SECTION 2 : BUILDING WORKS			
Bill No.16 : Paintwork			
<u>COLLECTION</u>			
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SECTION 2 : BUILDING WORKS			
Bill No.16 : Paintwork			

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AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
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SECTION 2 : BUILDING WORKS			
Bill No	<u>SECTION SUMMARY - SECTION 2 : BUILDING WORKS</u>	Page No	Amount
	Bill No.1 : Foundations (Provisional)	43	
	Bill No.2 : Concrete, Formwork and Reinforcement	48	
	Bill No.3 : Masonry	52	
	Bill No.4 : Waterproofing	55	
	Bill No.5 : Roof Coverings	58	
	Bill No.6 : Carpentry & Joinery	64	
	Bill No.7 : Fittings	67	
	Bill No.8 : Ceilings, Partitions & Access Flooring	71	
	Bill No.9 : Floor Coverings, Plastic Linings, Etc.	75	
	Bill No.10 : Ironmongery	83	
	Bill No.11 : Metalwork	88	
	Bill No.12 : Plastering	91	
	Bill No.13 : Tiling	94	
	Bill No.14 : Plumbing & Drainage (Provisional)	98	
	Bill No.15 : Glazing	99	
	Bill No.16 : Paintwork	102	
Carried to Final Summary			R
SECTION 2 : BUILDING WORKS			

SECTION 3

EXTERNAL WORKS

BILL No. 1

WALKWAYS, ETC

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province.

As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province.

Proprietary Products In Descriptions

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.1 : Walkways, Etc

Nature Of Material To Be Excavated

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"

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

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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator.

All concrete work shall comply to SABS 1200G and no crusher run from Goldfields may be used on this Project.

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
 Bill No.1 : Walkways, Etc

R

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
Bill No.1 : Walkways, Etc				
<u>COLLECTION</u>				
		Page No		Amount
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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
Bill No.1 : Walkways, Etc				

SECTION 3

EXTERNAL WORKS

BILL No. 2

WATER SUPPLY, WATER TANKS AND STANDS (PROVISIONAL)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

Nature Of Material To Be Excavated

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.2 : Water Supply, Water Tanks and Stands

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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator.

All concrete work shall comply to SABS 1200G and no crusher run from Goldfields may be used on this Project.

WATER SUPPLY PIPES

HDPE pipes

- | | |
|---|---|
| 1 | 50mm Pipes laid in and including trenches not exceeding 1000mm deep |
|---|---|

m	195
---	-----

Extra Over HDPE Pipes For "Plasson" Or Other Approved Fittings

- | | |
|---|--------------|
| 2 | 50mm End cap |
|---|--------------|

No	3
----	---

- | | |
|---|-----------|
| 3 | 50mm Bend |
|---|-----------|

No	3
----	---

- | | |
|---|----------|
| 4 | 50mm Tee |
|---|----------|

No	5
----	---

- | | |
|---|----------------------|
| 5 | 50mm Isolation valve |
|---|----------------------|

No	1
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Carried to Collection

R

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
 Bill No.2 : Water Supply, Water Tanks and Stands

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.2 : Water Supply, Water Tanks and Stands

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

1	<p><u>One Layer 375 Micron Embossed Dampproof Sheeting</u></p> <p>On walls.</p>	m2	7		
	<p><u>FACE BRICKWORK</u></p> <p><u>Topaz Satin Face Bricks (FBX) Delivered To Site And Pointed With Ruled-In Vertical And Horizontal Joints</u></p>				
2	<p>Extra over ordinary brickwork for face brickwork.</p>	m2	22		
	<p><u>PLUMBING</u></p> <p><u>Water Storage Tanks</u></p>				
3	<p>5000 Litre Polyethylene water storage tank complete with lid and setting in position on concrete base (elsewhere) including tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to base. School name to be embossed on each tank.</p>	No	2		
	<p style="text-align: right;">Carried to Collection</p> <p>SECTION 3 : EXTERNAL WORKS (PROVISIONAL) Bill No.2 : Water Supply, Water Tanks and Stands</p>			R	

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
Bill No.2 : Water Supply, Water Tanks and Stands				
<u>COLLECTION</u>				
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		113		
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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
Bill No.2 : Water Supply, Water Tanks and Stands				

SECTION 3

EXTERNAL WORKS

BILL No. 3

STORMWATER DRAINAGE (PROVISIONAL)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

Nature Of Material To Be Excavated

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.3 : Stormwater Drainage, etc

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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator.

All concrete work shall comply to SABS 1200G and no crusher run from Goldfields may be used on this Project.

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

1	900mm Wide x 150mm thick V-shaped concrete (25MPa) open surface water channel laid to falls in lengths not exceeding 2500mm on a well rammed earth bottom including excavation, reinforcement, formwork, damp proof membrane, ramming and depositing and levelling spoil on site where directed.	m	121
2	Extra for angles, intersections, ends, dressing into sides of catchpits, etc.	No	22

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
 Bill No.3 : Stormwater Drainage, etc

R

[illegible]

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION 3</u>				
	<u>EXTERNAL WORKS</u>				
	<u>BILL No. 4</u>				
	<u>GREYWATER DRAINAGE</u>				
	<u>PREAMBLES</u>				
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Preambles</u>				
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
	<u>Class 34 uPVC Pipes Laid In Ground In And Including Excavation For Trenches, Risk Of Collapse, Bedding, Backfilling, Etc</u>				
1	110mm Pipe and excavation not exceeding 1000mm deep.	m	100		
2	110mm Pipe and excavation exceeding 1000mm and not exceeding 2000mm deep.	m	33		
	<u>Extra For</u>				
3	110mm Junction.	No	6		
4	110mm French drain.	No	1		
5	110mm Gulley trap with hopper head.	No	5		
6	110mm Bend.	No	3		
	Carried Forward to Summary of Section No. 3				R
	SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
	Bill No.4 : Greywater Drainage				

SECTION 3

EXTERNAL WORKS

BILL No. 5

SCREEN WALL

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

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

1	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	8
2	Extra over all excavations for carting away from the site all surplus excavated material.	m3	4
3	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	20
4	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	4

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.5 : Screen Wall

BILL OF QUANTITIES

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.5 : Screen Wall			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	119		
	120		
	121		
Carried Forward to Summary of Section No. 3			
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.5 : Screen Wall			

CONSTRUCTION OF NEW EDUCATIONAL ECD FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCBO
EMIS Nu. 200400085, ECDoe P Nu : P9007203
BILL OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>EXTERNAL WORKS</u>			
	<u>BILL No. 6</u>			
	<u>LANDSCAPING</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Preambles</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
	<u>GRASSED AREA</u>			
1	Prepare 50mm topsoil around building and play area as indicated. Fertilize top of garden soil prepared with super phosphate fertilizer mixture before commencing of planting. Plant new "Cynodon Dactylon" roll-on grass over site and embankments.	m2	400	
2	Supply and deliver "Harpephyllum Caffrum" (Wild Plum or Umgwenya) 600mm high, including planting, fertilizing, staking, mulching and watering.	No	4	
3	Maintanance of Landscaping for 3 Months.	Item		
	Carried Forward to Summary of Section No. 3			R
	SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
	Bill No.6 : Landscaping			

SECTION 3

EXTERNAL WORKS

BILL No. 7

HIGH RISE WATER TANK & STAND

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

SITE CLEARANCE

1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	25
<u>EXCAVATIONS, FILLING, ETC</u>			
2	Excavate in earth not exceeding 2m deep.	m3	8
3	Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.	m2	10
4	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	30
5	Extra over all excavations for carting away from the site all surplus excavated material.	m3	11

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.7 : Highrise Water Tank

R

R

TANKS, ETC

No

1

Carried to Collection

R

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.7 : Highrise Water Tank

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDōE P Nu : P9007203
 BILL OF QUANTITIES

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.7 : Highrise Water Tank			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	124		
	125		
	126		
Carried Forward to Summary of Section No. 3			
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.7 : Highrise Water Tank			

R

SECTION 3

EXTERNAL WORKS

BILL No. 8

FENCING

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371 with its latest ammendements"

SUPPLEMENTARY PREAMBLES

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

Fencing

Reinforced Concrete

All to be constructed as per manufactures specification

Site Clearance

1	Allow for clearing site for the width of 1000mm where fencing runs are to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.
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SUNDRY METALWORK

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.8 : Fencing

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoe P Nu : P9007203
 BILL OF QUANTITIES

**Hot Dipped Galvanised After Fabrication Mild Steel
 Welded Screens And Gates With Frames, Mitred
 Intersections, Ironmongery, Etc And Fixed Complete**

1	3mm Diameter Econo mesh panel (Class C) 3300mm wide x 1800mm high, with aperture size (centre to centre) 76.2mm x 50mm. Galvanized and coated with marine fusion bond for corrosion protection.	m	133
2	2400mm high pre-drilled hot dip galvanised square hollow section locking post size 76 x 76 x 1.6mm, sealed with UV stabilized polymer cap including 8 x single and 8 x double bolt comb clamp and embedded in and including 400 x 400 x 600mm mass concrete (15 MPa) all complete with excavations, filling, etc.	No	41

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
 Bill No.8 : Fencing

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

[illegible]

SECTION 3

EXTERNAL WORKS

BILL No. 9

COVERED PLAY AREA

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province.

As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province.

Proprietary Products In Descriptions

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.9 : Covered Play Area, Sandpits, Etc

EXCAVATIONS, FILLING, ETC

1	Excavate in earth to open face over site to reduce levels.	m3	28
2	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	2
3	Extra over excavations in earth to trenches for excavation in soft rock.	m3	3
4	Extra over all excavations for carting away from the site all surplus excavated material.	m3	30
5	G7 type filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density to platforms, etc.	m3	28
6	Allow for keeping excavations free from water.		Item
7	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	92
8	Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.	m2	12
9	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated in 30mm thick blinding layer under floors, etc.	m3	8
10	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	92

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

Reinforced Cement Concrete (25MPa) In

11	Footings.	m3	2
12	Bases.	m3	1

Carried to Collection

R

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
 Bill No.9 : Covered Play Area, Sandpits, Etc

<u>FORMWORK (CPAP Work Group No. 111 Unless Otherwise Stated)</u>					
<u>Smooth Formwork To</u>					
1	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	14		
<u>REINFORCEMENT (CPAP Work Group No. 114 Unless Otherwise Stated)</u>					
<u>Mild Steel Bar Reinforcement To Structural Concrete Work</u>					
2	8mm Diameter bars.	t	0.04		
<u>High Tensile Steel Bar Reinforcement To Structural Concrete Work</u>					
3	10mm Diameter bars.	t	0.04		
4	12mm Diameter bars.	t	0.03		
<u>PRECAST CONCRETE(CPAP Work Group No. 112 Unless Otherwise Stated)</u>					
<u>Precast Cement Concrete (20MPa) Kerbs And Channels Finished Smooth From The Mould On Exposed Surfaces And Including Excavation, Backfilling, Etc</u>					
5	Fig. 11 kerb size 75 x 150mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	22		
<u>BRICK AND BLOCK PAVING</u>					
<u>Coloured Precast Cement Concrete (25MPa) Interlocking Paving Bricks Size 200 x 100 x 80mm Thick Laid On And Including 20mm Thick Sand Bed With Joints Filled With Sand</u>					
6	Paving to patterns as architects design and to falls and cross falls.	m2	27		
<u>WATERPROOFING(CPAP Work Group No. 120 Unless Otherwise Stated)</u>					
Carried to Collection				R	
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)					
Bill No.9 : Covered Play Area, Sandpits, Etc					

One Layer 250 Micron Waterproof Sheeting With Staggered Joints

1	On compacted earth under paving bricks.	m2	27
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Kaytech A2 Bidim

2	On compacted earth under sandpits.	m2	25
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HDPE PIPE

3	75mm Diameter HDPE pipe laid on aluminium roof openings.	m	12
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4	250mm Diameter HDPE pipe laid on top of concrete base around sandpit.	m	36
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5	10mm Diameter threaded rod with M10 nut and washer to hold 160mm diameter HDPE pipe.	No	9
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6	16mm Diameter threaded rod with M10 nut and washer to hold 160mm diameter HDPE pipe.	No	6
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PLATES AND BOLTS

7	250 x 250 x 12mm Thick base plate.	No	6
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8	570 x 120 x 10mm plate.	No	6
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9	M12 Anchor bolts.	No	36
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10	M16 Diameter threaded bars.	No	27
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GUMPOLE, TIMBER DROPPERS, ETC

11	175 - 200 CCA treated gumpole.	m	36
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12	125 - 150 CCA treated gumpole.	m	75
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13	Tanaliath treated 50mm diameter timber droppers.	m	243
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PROFILED SHEETING OF METAL, FIBRE-CEMENT, PLASTICS, ETC.

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.9 : Covered Play Area, Sandpits, Etc

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCBO
 EMIS Nu. 200400085, ECDoe P Nu : P9007203
 BILL OF QUANTITIES

**0,8mm Thick Colomite IBR 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 Treated Gumpole**

1	Roof covering with pitch not exceeding 25 degrees.	m2	48
2	0.8mm Thick ridge capping with ridge closer.	m	10

PAINTWORK

**One Coat Alkali Resistant Primer And Two coats
 Superior Quality Acrylic Emulsion Paint For Interior
 And Exterior Use**

3	On HDPE pipes.	m2	2
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Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
 Bill No.9 : Covered Play Area, Sandpits, Etc

R

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.9 : Covered Play Area, Sandpits, Etc			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	131		
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Carried Forward to Summary of Section No. 3		R	
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.9 : Covered Play Area, Sandpits, Etc			

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>EXTERNAL WORKS</u>			
	<u>BILL No. 10</u>			
	<u>DRINKING FOUNTAINS</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Preambles</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section			
	<u>The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province</u>			
	<u>As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province</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			
	Carried to Collection			
	SECTION 3 : EXTERNAL WORKS (PROVISIONAL) Bill No.10 : Drinking Fountains			
			R	

Nature Of Material To Be Excavated

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"

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

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

Remeasurement

Final remeasurement of quantities to be done after completion

The Following In 4/No. Drinking Fountains

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

Excavations, Filling, Etc

1	Excavate in earth to open face to reduce levels.	m3	2	
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Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
 Bill No.10 : Drinking Fountains

R

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<u>Bitumen Impregnated Soft Board Expansion Joints</u>				
1	Joint formed of one layer 10mm thick soft board set between vertical concrete or brick surfaces.	m2	1	
<u>Fabric Reinforcement To Concrete Work</u>				
2	High tensile steel mesh Ref. 193 to concrete surface beds, slabs, etc.	m2	1	
<u>DAMP PROOFING TO WALLS AND FLOORS</u>				
<u>One Layer 250 Micron Waterproof Sheeting</u>				
3	Under surfacebeds.	m2	1	
<u>WATER SUPPLY</u>				
<u>High Density Polyethylene Pipe Class 10 Type IV SABS 533 With Plasson Compression Fittings And Laid In Pipe Trenches As SABS 1200 DB Of 1979 And SABS 1200 DB Of 1982</u>				
4	25mm Pipe and laying in ground not exceeding 1000mm deep.	m	16	
<u>Extra For</u>				
5	25mm Reducing socket.	No	2	
<u>Galvanised Mild Steel Pipes</u>				
6	15mm Pipes chased into concrete walls.	m	4	
<u>Extra Over Galvanised Mild Steel Pipes For Steel Fittings</u>				
7	15mm Pipe fittings	m	7	
<u>TAPS, VALVES, ETC.</u>				
<u>Catalogue Numbers Refer To Cobra Brassware Catalogue</u>				
<u>Brass Fittings</u>				
8	15mm Hose bibtap as Cobra 108KL or other approved with lockshield and loose key.	No	2	
Carried to Collection				R
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
Bill No.10 : Drinking Fountains				

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.10 : Drinking Fountains			
<u>COLLECTION</u>			
	Page No		Amount
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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.10 : Drinking Fountains			

R

SECTION 3

EXTERNAL WORKS

BILL NO. 11

JUNGLE GYM, ETC

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province.

As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province.

Proprietary Products In Descriptions

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.11 : Jungle Gym, Etc

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDōE P Nu : P9007203
 BILL OF QUANTITIES

JUNGLE GYM

- 1 Supply and deliver complete jungle gym consisting of 2 x platforms, pull-up ramp, tyre ramp, swings-three tyres with chains, 2 x trapeze, monkey bar, swing bar, suspended bridge, slides, balustrades as per drawing No. 715 Rev0.

No

2

Carried to Collection

R

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.11 : Jungle Gym, Etc

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.11 : Jungle Gym, Etc			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	142		
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Carried Forward to Summary of Section No. 3			
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.11 : Jungle Gym, Etc			

SECTION 3

EXTERNAL WORKS

BILL No. 12

ROADWORKS AND PARKING

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

Nature Of Material To Be Excavated

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.12 : Roads and Parking

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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator.

All concrete work shall comply to SABS 1200G and no crusher run from Goldfields may be used on this Project.

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

Site Clearance

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	713
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Excavations, Filling, Etc

2	Excavate in earth to reduce levels under roads not exceeding 2000mm deep.	m3	143
3	Extra over bulk excavations in earth for excavation in soft rock.	m3	7
4	Ditto, but in hard rock.	m3	4

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
 Bill No.12 : Roads and Parking

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

1	Extra over all excavations for carting away from the site all surplus excavated material.	m3	143		
2	G7 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 95% modified AASHTO density in 500mm thick sub-base course under roads.	m3	71		
3	Earth filling supplied G5 Material by the Contractor, compacted to 93% Mod AASHTO density.	m3	71		
4	Scarify, mix and consolidate top 150mm of subgrade to 90% modified AASHTO density.	m2	475		
<u>TESTING</u>					
5	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Consultant within 24 hours of the tests being completed.	No	3		
<u>PRECAST CONCRETE(CPAP Work Group No. 112 Unless Otherwise Stated)</u>					
<u>Precast Cement Concrete (20MPa) Kerbs And Channels Finished Smooth From The Mould On Exposed Surfaces And Including Excavation, Backfilling, Etc</u>					
6	Fig. 4 kerb size 150 x 300mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course, bedded on a 45mm thick x 300mm wide layer of 3.1 cement mortar with 100 x 100 x 200mm long triangular haunching behind kerb at all joints and jointed in 3.1 cement mortar.	m	92		
<u>BRICK AND BLOCK PAVING</u>					
<u>Coloured Precast Cement Concrete (25MPa) Interlocking Paving Bricks Size 200 x 100 x 80mm Thick Laid On And Including 20mm Thick Sand Bed With Joints Filled With Sand</u>					
7	Paving to patterns as architects design and to falls and cross falls.	m2	475		
8	Fair circular cutting.	m	69		
Carried to Collection				R	
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)					
Bill No.12 : Roads and Parking					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoe P Nu : P9007203
 BILL OF QUANTITIES

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.12 : Roads and Parking			
<u>COLLECTION</u>			
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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.12 : Roads and Parking			

SECTION 3

EXTERNAL WORKS

BILL No. 13

SOAKAWAY, ETC

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province.

As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province.

Proprietary Products In Descriptions

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.13 : Soakway

Nature Of Material To Be Excavated

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"

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

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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator.

All concrete work shall comply to SABS 1200G and no crusher run from Goldfields may be used on this Project.

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
 Bill No.13 : Soakway

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

[illegible]

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.13 : Soakway			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	150		
	151		
	152		
Carried Forward to Summary of Section No. 3			
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.13 : Soakway			

AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO

EMIS Nu. 200400085, ECDoE P Nu : P9007203

BILL OF QUANTITIES

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

SECTION SUMMARY - SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill
NoPage
No

Amount

Bill No.1 : Walkways, Etc

108

Bill No.2 : Water Supply, Water Tanks and Stands

114

Bill No.3 : Stormwater Drainage, etc

117

Bill No.4 : Greywater Drainage

118

Bill No.5 : Screen Wall

122

Bill No.6 : Landscaping

123

Bill No.7 : Highrise Water Tank

127

Bill No.8 : Fencing

130

Bill No.9 : Covered Play Area, Sandpits, Etc

136

Bill No.10 : Drinking Fountains

141

Bill No.11 : Jungle Gym, Etc

144

Bill No.12 : Roads and Parking

149

Bill No.13 : Soakway

153

Carried to Final Summary

R

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

SECTION 4

BOREHOLE

BILL No. 1

PIPE TRENCHES

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province.

As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province.

Proprietary Products In Descriptions

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

Carried to Collection

SECTION 4 : BOREHOLE

Bill No.1 : Pipe Trenches

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

SITE CLEARANCE

1	Clear vegetation and trees of girth up to 1m.	m	809
2	Remove topsoil to nominal depth of 100mm on pipeline route, stockpile, maintain and reinstate.	m2	81

EXCAVATION

**Excavate In All Materials Including Intermediate For
 Trenches, Backfill, Compact, And Dispose Of
 Surplus/Unsuitable Material For Pipes Up To And
 Including 63mm Diameter For Total Trench Depth**

3	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	713
4	Ditto, but in hard rock.	m3	93
5	Backfill and compact by Hand (Labour Intensive Construction) in all materials for pipes up to and including 63mm diameter for total trench depth.	m3	420

EXCAVATION ANCILLARIES

Make Up Deficiency In Back-Fill Material

6	From other necessary excavations on site.	m3	90
7	By importation from commercial or off-site sources selected by the Contractor.	m3	90
8	Compaction in road reserves.	m3	30

FINISHINGS

9	Cut through existing road surface for trench excavation and reinstate.	m2	16
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Carried to Collection

R

SECTION 4 : BOREHOLE
 Bill No.1 : Pipe Trenches

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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BILL OF QUANTITIES

[illegible]

SECTION 4

BOREHOLE

BILL No. 2

BULK PUMPING MAIN FROM BOREHOLE

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

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Proprietary Products In Descriptions

Proprietary products shall be used as specified.
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Carried to Collection

SECTION 4 : BOREHOLE

Bill No.2 : Bulk Pumping Main From Borehole

<u>mPVC PIPES</u>					
<u>Supply, Handle, Lay, And Bed, Joint With Couplings, Test, And Disinfect (Potable Water Pipeline)</u>					
1	63mmØ Class 9.	m	809		
<u>PIPE SPECIALS AND FITTINGS</u>					
<u>Supply, Lay, And Bed, Joint, Including Cut Pipes To Length Where Required, Test And Disinfect: Extra-Over Items For Pipe Laying</u>					
Supply, lay, and bed, joint, including cut pipes to length where required, test and disinfect: Extra-over items for pipe laying					
<u>CI Fittings To Suit mPVC Class 9 Pipework</u>					
2	63mmØ x 90 degree bend.	No	1		
3	63mmØ x 45 degree bend.	No	1		
4	63mmØ x 11¼ degree bend.	No	1		
5	63mmØ x 22½° degree bend.	No	1		
<u>MISCELLANEOUS</u>					
6	Pipeline marker posts.	No	2		
Carried to Collection				R	
SECTION 4 : BOREHOLE					
Bill No.2 : Bulk Pumping Main From Borehole					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
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SECTION 4 : BOREHOLE			
Bill No.2 : Bulk Pumping Main From Borehole			
<u>COLLECTION</u>			
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Bill No.2 : Bulk Pumping Main From Borehole			

SECTION 4

BOREHOLE

BILL No. 3

BEDDING

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province.

As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province.

Proprietary Products In Descriptions

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

Carried to Collection

SECTION 4 : BOREHOLE

Bill No.3 : Bedding

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

SECTION 4 : BOREHOLE			
Bill No.3 : Bedding			
<u>COLLECTION</u>			
	Page No		Amount
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	162		
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SECTION 4 : BOREHOLE			
Bill No.3 : Bedding			

SECTION 4

BOREHOLE

BILL No. 4

VALVE INSTALLATION

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province.

As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province.

Proprietary Products In Descriptions

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

Carried to Collection

SECTION 4 : BOREHOLE

Bill No.4 : Valve Installation

ISOLATION VALVES

Supply And Install Complete Isolation Valve Installation As Per Drawing. RSV Gate Valve Or Similar Approved With Flanged Ends And A Cap Top For Key Operation For The Following Diameters, Including Specials, Fittings And 15 MPa Concrete Anchor Blocks

1	63mmØ Class 9.	No	1
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AIR VALVES

Supply And Install Air Valve Installation Complete As Per Drawing. Valve Type Shall Be Ventomat RBX Series Or Equivalent Approved Air Valve For The Following Types, Including Specials, Fittings And Ball Valve. Rates Shall Make Provision For All Materials. Excavation Shall Be Measured Under Item

2	25mmØ.	No	1
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SCOUR VALVES

Supply And Install Complete Scour Valve Installation As Per Drawing. RSV Gate Valve With Cap Top For The Following Diameters, Including Specials, Fittings And 15MPa Concrete Anchor Blocks

3	63mmØ Class 9.	No	1
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MISCELLANEOUS

4	Lettering to cover slab using road marking paint.	No	1
---	---	----	---

Carried to Collection

R

SECTION 4 : BOREHOLE
 Bill No.4 : Valve Installation

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BOREHOLE</u>			
	<u>BILL No. 5</u>			
	<u>BOREHOLE PUMP HOUSE AND GROUNDWATER SOURCE DEVELOPMENT</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Preambles</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
	<u>The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province.</u>			
	<u>As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province.</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			
	Carried to Collection		R	
	SECTION 4 : BOREHOLE			
	Bill No.5 : Borehole Pump House and Groundwater Sourc			

EXCAVATIONS, FILLING, ETC (CPAP Work Group No. 104 Unless Otherwise Stated)

1	Excavate in earth to open face over site to reduce levels.	m3	1
2	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	6
3	Extra over excavations in earth to trenches for excavation in soft rock.	m3	0.2
4	Ditto, but in hard rock.	m3	0.3
5	Excavate in earth for working space (at Contractor's discretion) not exceeding 1300mm deep to side of the building of brick wall, fill and consolidate spoil on completion. (Distance from face of wall to side of excavation is 170mm).	m2	12
6	Extra over all excavations for carting away from the site all surplus excavated material.	m3	5
7	Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.	m2	19
8	Earth filling supplied G5 Material by the Contractor, compacted to 93% Mod AASHTO density.	m3	3
9	Allow for keeping excavations free from water.		Item
10	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	9
11	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated in 30mm thick blinding layer under floors, etc.	m3	0.4
12	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	35

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

Carried to Collection

R

SECTION 4 : BOREHOLE
 Bill No.5 : Borehole Pump House and Groundwater Sourc

<u>Reinforced Cement Concrete (25MPa) In</u>					
1	Slabs including beams and inverted beams.	m3	2		
2	Surface beds on waterproof sheeting.	m3	1		
3	Footings.	m3	2		
<u>FORMWORK (CPAP Work Group No. 111 Unless Otherwise Stated)</u>					
<u>Smooth Formwork To</u>					
4	Sides and soffits of slabs and beams.	m2	10		
5	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	13		
<u>CONCRETE SUNDRIES (CPAP Work Group No. 111 Unless Otherwise Stated)</u>					
<u>Finishing Top Surfaces Of Concrete Smooth With A Wood float</u>					
6	Surface beds, slabs, etc.	m2	9		
<u>MOVEMENT JOINTS, ETC</u>					
<u>Bitumen Impregnated Soft board Expansion Joints</u>					
7	Joint formed of one layer 10mm thick soft board set between vertical concrete or brick surfaces.	m	12		
<u>REINFORCEMENT (CPAP Work Group No. 114 Unless Otherwise Stated)</u>					
<u>Mild Steel Bar Reinforcement To Structural Concrete Work</u>					
8	8mm Diameter bars.	t	0.06		
<u>High Tensile Steel Bar Reinforcement To Structural Concrete Work</u>					
9	10mm Diameter bars.	t	0.13		
Carried to Collection				R	
SECTION 4 : BOREHOLE					
Bill No.5 : Borehole Pump House and Groundwater Sourc					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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BILL OF QUANTITIES

1	12mm Diameter bars.	t	0.13		
	<u>Fabric Reinforcement To Concrete Work</u>				
2	High tensile steel mesh Ref. 193 to concrete surface beds, slabs, etc.	m2	9		
	<u>BRICKWORK (CPAP Work Group No. 118 Unless Otherwise Stated)</u>				
	<u>Brickwork In Clay Bricks In Cement Mortar In</u>				
3	One brick wall.	m2	34		
	<u>Sundries</u>				
4	Galvanised brick reinforcement 155mm wide.	m	180		
	<u>LINTOLS (CPAP Work Group No. 112 Unless Otherwise Stated)</u>				
	<u>Prestressed Fabricated Lintols</u>				
5	100 x 70mm Lintels in lengths not exceeding 3m.	m	6		
	<u>FACE BRICKWORK (CPAP Work Group No. 118 Unless Otherwise Stated)</u>				
	<u>Face Bricks (FBX) Delivered To Site And Pointed With Ruled-In Vertical And Horizontal Joints</u>				
6	Extra over ordinary brickwork for face brickwork.	m2	28		
7	Extra over brickwork for brick-on-edge header course lintol.	m	2		
8	Extra over brickwork for facebrick window sill	m	2		
	<u>DAMP PROOFING TO WALLS, SLABS AND FLOORS (CPAP Work Group No. 120 Unless Otherwise Stated)</u>				
	Carried to Collection				
	SECTION 4 : BOREHOLE				
	Bill No.5 : Borehole Pump House and Groundwater Sourc				

R

<u>One Layer 250 Micron Waterproof Sheeting</u>					
1	Under ground beams and surfacebeds.	m2	9		
2	On walls.	m2	4		
<u>Derbigum Waterproofing Membrane</u>					
3	Under slabs.	m2	10		
<u>STEEL WINDOWS (CPAP Work Group No. 136 Unless Otherwise Stated)</u>					
<u>Purpose Made Steel Windows Complete, Glazed With And Including 6,38mm Thick Clear Laminated Safety Glass Installed As Per Manufacturer's Instructions. All Windows To Include Burglar Bars Securely Fixed To The Inside Of The Window Openings. All Holes To Be Pre-Drilled Before Hot Dipped Galvanizing</u>					
4	Window type E4 size 1511 x 654mm high with and including burglar bars.	No	1		
<u>TRANSFORMER ROOM DOORS, VENTILATORS, ETC(CPAP Work Group No. 136 Unless Otherwise Stated)</u>					
5	Door Type DS1-6mm transformer room door.	No	1		
<u>INTERNAL PLASTER (CPAP Work Group No. 142 Unless Otherwise Stated)</u>					
<u>One Coat Cement Plaster Minimum 15mm Thick (4:1) Finished Smooth With A Steel Float On Brickwork</u>					
6	Brick vertical surfaces.	m2	28		
7	In narrow widths.	m2	5		
<u>BOREHOLE COVER AND FRAME</u>					
8	Type 4A borehole cover and frame.	No	1		
Carried to Collection				R	
SECTION 4 : BOREHOLE					
Bill No.5 : Borehole Pump House and Groundwater Sourc					

**PAINTWORK ON PLASTERED WALLS (CPAP Work
Group No. 152 Unless Otherwise Stated)**

**Prepare And Apply One Coat Primer And Two Coats
Acrylic PVA Suitable For Washing On**

1	Internal plastered walls, columns, recessed bends, etc.	m2	28
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PIPEWORK

2	25mm Diameter galvanized steel pressure relief pipe.	m	10
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3	50mm Diameter galvanized steel scour pipe.	m	15
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4	40mm HDPE pipes laid in and including trenches not laid in length to suite pumping depth of the borehole.	m	80
---	--	---	----

5	450 x 450 x 18mm Borehole cover plate.	No	1
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6	Steel equal tee.	No	4
---	------------------	----	---

7	Reducing bushes.	No	1
---	------------------	----	---

8	25mm Diameter steel distance piece 200mm long.	No	1
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9	Female threaded ball valve with one nipple.	No	1
---	---	----	---

10	Air valve DN25 VEN-O-MAT 025RBX1611 or similar approved.	No	1
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11	Non return valve PN16 with 3No. 1 nipples and 1 ½ union.	No	1
----	---	----	---

12	Pressure relief valve working pressure 16bar.	No	1
----	---	----	---

13	1 ½ reducing hex nipple.	No	1
----	--------------------------	----	---

14	Threaded butterfly valve PN16.	No	2
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15	Pressure gauge.	No	1
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16	Pressure control switch.	No	1
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Carried to Collection

SECTION 4 : BOREHOLE

Bill No.5 : Borehole Pump House and Groundwater Sourc

R

BILL OF QUANTITIES

Bill No.5 : Borehole Pump House and Groundwater Sourc

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES

SECTION 4 : BOREHOLE			
Bill No.5 : Borehole Pump House and Groundwater Source Development			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	167		
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	169		
	170		
	171		
	172		
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SECTION 4 : BOREHOLE			
Bill No.5 : Borehole Pump House and Groundwater Sourc			

SECTION 4

BOREHOLE

BILL No. 6

WATER DISINFECTION

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

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Proprietary Products In Descriptions

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Agent

Carried to Collection

SECTION 4 : BOREHOLE

Bill No.6 : Water Disinfection

R

1	140 Micron 1" Disc Filter.	No	1		
2	20" Big Blue Calcite.	No	1		
3	20" Big Blue Sediment.	No	1		
4	20" Big Blue GAC (Granular Activated Carbon).	No	1		
5	Stainless Steel UV Sterilizer with 85 Watt UV Lamp.	No	1		
6	Booster Pump with Flow Control.	No	1		
7	Circulation Controls.	No	1		
				Carried to Collection	
SECTION 4 : BOREHOLE					
Bill No.6 : Water Disinfection					

[illegible]

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDofE P Nu : P9007203
 BILL OF QUANTITIES

SECTION 4 : BOREHOLE				
Bill No	<u>SECTION SUMMARY - SECTION 4 : BOREHOLE</u>	Page No		Amount
	Bill No.1 : Pipe Trenches	157		
	Bill No.2 : Bulk Pumping Main From Borehole	160		
	Bill No.3 : Bedding	163		
	Bill No.4 : Valve Installation	166		
	Bill No.5 : Borehole Pump House and Groundwater Source Development	174		
	Bill No.6 : Water Disinfection	177		
Carried to Final Summary			R	
SECTION 4 : BOREHOLE				

Item No		Quantity	Rate	Amount
	<u>SECTION 5</u>			
	<u>SOCIO ECONOMIC AND DIRECT CONTRACT</u>			
	<u>BILL No. 1</u>			
	<u>BUDGETARY ALLOWANCES</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	The Contractor is referred to the Social and Economic Deliverables Specification Data included in this contract document for interpretation purposes. The Contractor shall ensure full achievement of the deliverables through the construction period of this contract.			
	<u>BUDGETARY ALLOWANCES</u>			
	Under this heading are for work to be executed by the Contractor and are to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. The work shall be measured and valued in accordance with the "Conditions of Contract".			
	<u>The Following Budgetary Amounts Are For Work To Be Carried Out By The Main Contractor, Nominated, Selected or Direct Contractors:</u>			
	The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.			
	<u>COMMUNITY LIAISON OFFICER (CLO)</u>			
1	Provide the amount of R75,000.00 to be paid to the CLO for the duration of the contract.	Item		75,000.00
	Carried Forward to Summary of Section No. 5		R	
	SECTION 5 : SOCIO ECONOMIC AND DIRECT CONTR			
	Bill No.1 : Budgetary Allowances			

SECTION 5

SOCIO ECONOMIC AND DIRECT CONTRACT

BILL No. 2

DIRECT CONTRACTS

SUPPLEMENTARY PREAMBLES

General

DIRECT CONTRACT ALLOWANCES

Under this heading are for work to be executed by the Direct Contractor and are to be used at the discretion of the Principal Agent and deducted in whole

The Following Amounts Are For Work To Be Carried Out By Direct Contractors

The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence

The Following Monetary Provisions Are To Be Omitted From The Contract Sum And Used As Directed Below

LOOSE FURNITURE

DIRECT CONTRACT APPOINTMENT BY CLIENT

1	Provide the sum of R 120,484.09 a Direct appointment (Client supply) from the Client for the supply and delivery to site of Furniture and Equipment to Cobosi Primary School.
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Item

120,484.09

Carried Forward to Summary of Section No. 5

R

SECTION 5 : SOCIO ECONOMIC AND DIRECT CONTR
Bill No.2 : Direct Contracts

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES

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ELECTRICAL BOQ

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 1</u>				
	<u>ELECTRICAL INSTALLATION - MAIN BUILDING</u>				
	<u>BILL NO. 1</u>				
	<u>DISTRIBUTION BOARDS</u>				
	New Surface/Recess mounted distribution boards accordance with the Specifications and Schedule of Distribution Boards				
	<u>NOTE : All equipment to be SABS approved and bear the SABS performance mark</u>				
	<u>DB EX, Fault Level: 6kA</u>				
1	Supply.	No	1		
2	Install.	No	1		
	<u>DB-1, Fault Level: 6kA</u>				
3	Supply.	No	1		
4	Install.	No	1		
	<u>DB-2, Fault Level: 6kA</u>				
5	Supply.	No	1		
6	Install.	No	1		
	<u>EDK 1, Fault Level: 6kA</u>				
7	Supply.	No	1		
8	Install.	No	1		
	Carried Forward to Summary of Section No. 1				R
	SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL				
	Bill No.1 : Distribution Boards				

CONSTRUCTION OF NEW EDUCATIONAL ECD FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoe P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 1</u>				
	<u>ELECTRICAL INSTALLATION - MAIN BUILDING</u>				
	<u>BILL NO. 2</u>				
	<u>MAINS CABLING & WIRING</u>				
	<u>CABLING</u>				
	(SANS 150) PVC SWAPVC cables drawn into cable sleeves, installed on cable trays/ladders or laid in open trenches including cutting and off cuts				
	<u>16mm² x 3 Core</u>				
1	Supply.	m	90		
2	Install.	m	90		
	<u>10mm² x 3 Core</u>				
3	Supply.	m	90		
4	Install.	m	90		
	<u>4mm² x 3 Core</u>				
5	Supply.	m	50		
6	Install.	m	50		
	<u>TERMINATION FOR</u>				
	<u>16mm² x 3 Core</u>				
7	Supply.	No	2		
8	Install.	No	2		
	Carried to Collection				R
	SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING				
	Bill No.2 : Mains Cabling and Wiring				

BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING
Bill No.2 : Mains Cabling and Wiring

AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO

EMIS Nu. 200400085, ECDoE P Nu : P9007203

110mm Slow Bends

50mm

50mm Slow Bends

32mm

32mm Slow Bends

10	Supply.	No	8
11	Install.	No	8

Trenching of cable trenches 600mm deep x 400mm wide including backfill and compacting

12	Install.	m	130
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13	Install.	m3	5
----	----------	----	---

R

Bill No.2 : Mains Cabling and Wiring

AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO

EMIS Nu. 200400085, ECDoE P Nu : P9007203

BILL OF QUANTITIES ELECTRICAL INSTALLATION

Hard Rock Requiring Use Of Dynamite

1	Install.	m3	10
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Allow For The Importing Of Suitable Soil To Be Used As Either Bedding Layer And/Or Backfilling Layer (Bedding To Be In Layer Of 75mm And Backfilling In Layer Of 150mm)

2	Install.	m3	100
---	----------	----	-----

**FILLING OBTAINED FROM EXCAVATIONS AND/OR
PRESCRIBED STOCK PILES ON SITE COMPACTED
TO 95% MOD AASHTO DENSITY**

Allow For The Backfilling Of The Trenches, Using Imported Soil And/Or Selected (Excavated) Material

3	Supply.	m3	30
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CABLES LABELLING

Label Cables On Both Ends With Numbering Beads Or Non-Corroding Straps To Indicate Their Connection Points

4	Supply.	Item
---	---------	------

CABLES WARNING TAPE

Skull And Crossbones Danger Tape

5	Supply.	m	350
---	---------	---	-----

6	Install.	m	350
---	----------	---	-----

CABLES MARKERS

Concrete Cable Markers Complete With Galvanised Wire Fastened To Cable And Aluminium Marker Plate With Description

7	Supply.	No	6
---	---------	----	---

8	Install.	No	6
---	----------	----	---

LOW VOLTAGE EARTHING

Carried to Collection

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING
Bill No.2 : Mains Cabling and Wiring

R

BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING

BILL OF QUANTITIES ELECTRICAL INSTALLATION

Bill No.2 : Mains Cabling and Wiring

CONSTRUCTION OF NEW EDUCATIONAL ECD FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoe P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 1</u>				
	<u>ELECTRICAL INSTALLATION - MAIN BUILDING</u>				
	<u>BILL NO. 3</u>				
	<u>GENERAL LIGHTING</u>				
	<u>CONDUIT</u>				
	<u>20mm PVC (SANS 950) Conduit Chased Into Brickwork, Cast Into Concrete Or Fixed Onto Trusses Including Cutting, Bending, Saddles, Bushes, etc</u>				
1	Supply.	m	1,400		
2	Install.	m	1,400		
	<u>CONDUIT BOXES</u>				
	<u>PVC Round Box For 20mm Conduit, Back Or Side</u>				
3	Supply.	No	110		
4	Install.	No	110		
	<u>Galvanised Steel, 100 x 50 x 50mm Box For 20mm Conduit Built Into Brickwork Or Cast In Concrete. (Cover Plates Measured Elsewhere)</u>				
5	Supply.	No	10		
6	Install.	No	10		
	<u>EQUIPMENT AND CONTROL GEAR</u>				
	16 Amp single lever, one way flush mounted				
	Carried to Collection				
	SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING				
	Bill No.3 : General Lighting				
				R	

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

	<u>1-Lever, 1-Way</u>				
1	Supply.	No	7		
2	Install.	No	7		
	<u>2-Lever, 1-Way</u>				
3	Supply.	No	2		
4	Install.	No	2		
	<u>1-Lever, 1-Way (Water Tight)</u>				
5	Supply.	No	2		
6	Install.	No	2		
	<u>Photo-Cell</u>				
7	Supply.	No	2		
8	Install.	No	2		
	<u>5A Switchless Socket Outlets For Light Fittings</u>				
9	Supply.	No	20		
10	Install.	No	20		
	<u>Occupancy Motion Sensors</u>				
11	Supply.	No	10		
12	Install.	No	10		
	<u>CONDUCTORS</u>				
	PVC insulated single core copper conductors drawn into conduit or laid into wiring channels.				
	<u>1,5mm² PVC Black And Red</u>				
13	Supply.	m	1,400		
14	Install.	m	1,400		
Carried to Collection					R
SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILD					
Bill No.3 : General Lighting					

BILL OF QUANTITIES ELECTRICAL INSTALLATION

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING			
Bill No.3 : General Lighting			
<u>COLLECTION</u>			
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	10		
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SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL			
Bill No.3 : General Lighting			

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoe P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 1</u>				
	<u>ELECTRICAL INSTALLATION - MAIN BUILDING</u>				
	<u>BILL NO. 4</u>				
	<u>LUMINARIES</u>				
	<u>Luminaries must be delivered with lamps packed separately. For Types, see "Schedule of Luminaries"</u>				
	<u>Type A</u>				
1	Supply.	No	2		
2	Install.	No	2		
	<u>Type B</u>				
3	Supply.	No	10		
4	Install.	No	10		
	<u>Type N</u>				
5	Supply.	No	26		
6	Install.	No	26		
	Carried Forward to Summary of Section No. 1				R
	SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL				
	Bill No.4 : Luminaries				

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 1</u>				
	<u>ELECTRICAL INSTALLATION - MAIN BUILDING</u>				
	<u>BILL NO. 5</u>				
	<u>SMALL POWER</u>				
	<u>CONDUIT</u>				
	PVC (SANS 950) conduit chased into brickwork, cast into concrete or fixed onto trusses including cutting, bending, saddles, bushes, wastage, etc.				
	<u>20mm</u>				
1	Supply.	m	500		
2	Install.	m	500		
	<u>32mm</u>				
3	Supply.	m	50		
4	Install.	m	50		
	<u>CONDUIT BOXES</u>				
	<u>PVC Round Box For 20mm Conduit, Back Or Side</u>				
5	Supply.	No	30		
6	Install.	No	30		
	<u>Galvanised Steel, 100 x 100 x 50mm Box For 20mm Conduit Built Into Brickwork Or Cast In Concrete. (Cover Plates Measured Elsewhere)</u>				
7	Supply.	No	15		
8	Install.	No	15		
	Carried to Collection				R
	SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING				
	Bill No.5 : Small Power				

AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO

EMIS Nu. 200400085, ECDoE P Nu : P9007203

BILL OF QUANTITIES ELECTRICAL INSTALLATION

Galvanised Steel, 100 x 150 x 50mm Box For 20mm Conduit Built Into Brickwork Or Cast In Concrete.
(Cover Plates Measured Elsewhere)

1	Supply.	No	10
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2	Install.	No	10
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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

20mm Diameter Conduit

3	Supply.	m	30
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4	Install.	m	30
---	----------	---	----

32mm Diameter Conduit

5	Supply.	m	30
---	---------	---	----

6	Install.	m	30
---	----------	---	----

CONDUCTORS

The supply and installation of PVC insulated stranded single core copper conductors drawn into conduits and ducting

2,5mm² PVC Black And Red

7	Supply.	m	1,000
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8	Install.	m	1,000
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2,5mm² PVC Insulated Green/Yellow Earth Wire

9	Supply.	m	400
---	---------	---	-----

10	Install.	m	400
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Carried to Collection

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING
Bill No.5 : Small Power

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BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING
Bill No.5 : Small Power

BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING
Bill No.5 : Small Power

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING			
Bill No.5 : Small Power			
<u>COLLECTION</u>			
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SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL			
Bill No.5 : Small Power			

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CONSTRUCTION OF NEW EDUCATIONAL ECD FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDofE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 1</u>				
	<u>ELECTRICAL INSTALLATION - MAIN BUILDING</u>				
	<u>BILL NO. 6</u>				
	<u>TELEPHONE AND DATA SYSTEM</u>				
	<u>Double Skin Brick 1000mm Deep Manhole With Heavy Duty Cover With The Following Minimum Inside Dimensions: 800mm x 800mm</u>				
1	Install.	No	1		
	SURFACE MOUNTED DISTRIBUTION BOARD WITH ARCHITRAVE, 10MM THICK SOFT WOOD BACK BOARD (PLYWOOD OR SHUTTER BOARD) AND HINGED DOOR				
	<u>450mm x 450mm</u>				
2	Supply.	No	1		
3	Install.	No	1		
	<u>CABLE SLEEVES</u>				
	Flexible (Kabelflex) PVC cable sleeves laid in open trench including cutting, backfilling and compacting				
	<u>Allow For the Importing Of Suitable Soil To Be Used As Either Bedding Layer And/Or Backfilling Layer (Bedding To Be In Layer Of 75mm And Backfilling In Layers Of 150mm)</u>				
4	Supply.	m3	10		
Carried to Collection					R
SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING					
Bill No.6 : Telephone and Data System					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
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 BILL OF QUANTITIES ELECTRICAL INSTALLATION

<u>CONDUIT</u>					
PVC (SANS 950) conduit chased into brickwork, cast into concrete or fixed onto trusses including cutting, bending, saddles, bushes, wastages, etc					
<u>32mm Conduit</u>					
1	Supply.	m	20		
2	Install.	m	20		
<u>CONDUIT ACCESSORIES & BOXES</u>					
<u>PVC Round Box For 25mm And 32mm Conduit, Back Or Side Entry For 1, 2, 3 or 4-Way Chased Into Brickwork, Cast Into Concrete Or Fixed Onto Trusses Including Couplings Bushes, Cover Plates And Fixing Materials</u>					
3	Supply.	No	10		
4	Install.	No	10		
<u>Galvanised Steel Draw Wires Drawn Into Conduit (1,6mm)</u>					
5	Supply.	m	100		
6	Install.	m	100		
<u>POWER SKIRTING SOCKETS</u>					
<u>Data RJ88</u>					
7	Supply.	m	2		
8	Install.	m	2		
<u>Data RJ45</u>					
9	Supply.	m	2		
10	Install.	m	2		
Carried to Collection				R	
SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL					
Bill No.6 : Telephone and Data System					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING			
Bill No.6 : Telephone and Data System			
<u>COLLECTION</u>			
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SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL			
Bill No.6 : Telephone and Data System			

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AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO

EMIS Nu. 200400085, ECDoE P Nu : P9007203

SECTION 1

BILL NO. 7

TRAINING

1	Install.
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Item

2	Install.
---	----------

Item

3	Install.
---	----------

Item

4	Supply.
---	---------

Item

5	Supply.
---	---------

Item

R

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDofE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

	<p><u>Allow For Testing, Balancing And Commissioning The Whole Of The Electrical Installation As Laid Down In The Specification And For Re-testing As May Be Required After The Making Good Of All Defective Work To The Satisfaction Of The Department And The Engineer</u></p>			
1	<p>Supply.</p> <p><u>Provision Of Certificates of Compliance For The Electrical Installation</u></p>	Item		
2	<p>Supply.</p> <p><u>Provision For The Drawings Showing All Site Cable Routes, Conduit Routes, Draw Boxes And Positions Of Outlets, Etc</u></p>	Item		
3	<p>Supply.</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL</p> <p>Bill No.7 : Sundry Items</p>		R	

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING			
Bill No.7 : Sundry Items			
<u>COLLECTION</u>			
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SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL			
Bill No.7 : Sundry Items			

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoe P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>ELECTRICAL INSTALLATION - MAIN BUILDING</u>			
<u>BILL NO.8</u>			
<u>LIGHTNING PROTECT INSTALLATION</u>			
<u>Lightning Protection System</u>			
<p>1.The Contractor shall price and make allowance for the complete Lightning Protection System to the Installation including the required soil resistivity survey to be carried out on site, the issuing of the final design of the earthing system, the submitting of same for approval, the supply, installation, testing, commissioning, issuing of a SABS approved earthing certificate and the required guarantee of the system for 12 months.</p> <p>2. The Contractor shall ensure that the general bonding of the building electrical installation is carried out to Clause 6.13 of SANS 10147 Bonding Lightning Protection System to Structures.Where applicable all steel roof sheeting to the special earth systems.</p> <p>3. Grade "A" type earth electrodes (earth spikes of at least 1,5m in the length) shall be driven into the ground just off the centre line of each of the building gable walls of each individual block or where required.</p> <p>4. In each instance these earth spikes must be interconnected by means of approved earth spike clamps and 35mm² insulated copper earth conductor to a height of 500mm AGL, where it is joined by means of a Bi-metal lug to an 8mm round aluminium conductor which through a 25mm conduit exits 200mm below the roof covering where it is terminated and sealed off by means of silicon sealer.</p>			
Carried to Collection			R
SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL			
Bill No.8 : Lightning Protection Installation			

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

	<u>Carry Out The Required Earth Resistivity Tests/ Surveys On Site, Final Design For The Proposed Earthing System And Completion Of The LPS Risk Assessment. All To Be Submitted To Engineer For Approval</u>				
1	Install.		Item		
	<u>1.5m Long Cadweld Type Copper Electrodes Driven Into The Ground 500mm BGL</u>				
2	Supply.	No	8		
3	Install.	No	8		
	<u>35mm² Insulated Copper Earth Conductor From Earth Electrode To Inspection Box Connection</u>				
4	Supply.	m	12		
5	Install.	m	12		
	<u>Complete Termination Arrangement Of the 35mm² Insulated Copper Earth Conductors To Earth Electrode</u>				
6	Supply.	No	8		
7	Install.	No	8		
	<u>Complete Termination Arrangement Of the 35mm² Insulated Copper Earth Conductors To the 8mm Round Aluminium Conductor Including Bimetal Lugs And Inspection box</u>				
8	Supply.	No	8		
9	Install.	No	8		
	<u>8mm Round Aluminium Conductor From Roof Termination To Inspection Box</u>				
10	Supply.	m	20		
11	Install.	m	20		
Carried to Collection					R
SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING					
Bill No.8 : Lightning Protection Installation					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
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BILL OF QUANTITIES ELECTRICAL INSTALLATION

<u>Complete Termination Of 8mm Round Aluminium Conductor To Roof Sheetting</u>			
1	Supply.	No	8
2	Install.	No	8
<u>Bonding of Metal Drainage Down Pipes And Items</u>			
3	Install.		Item
<u>25mm Diameter Galvanised Conduit Surface On Wall As Indicated On The Drawing</u>			
4	Supply.	m	36
5	Install.	m	36
<u>Soft Excavation For Earth Conductor 500mm Deep</u>			
6	Install.	m3	2
<u>Lightning Protection Sundries</u>			
7	Install.		Item
<u>TESTING</u>			
<u>Testing Of Joint Continuity</u>			
8	Install.		Item
<u>Testing Of Lightning Protection System</u>			
9	Install.		Item
<u>Testing of Earthing Points</u>			
10	Install.		Item
<u>Soil Resistivity Test And Report</u>			
11	Install.		Item
Carried to Collection			R
SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUIL			
Bill No.8 : Lightning Protection Installation			

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDōE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING			
Bill No.8 : Lightning Protection Installation			
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Bill No.8 : Lightning Protection Installation			

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING			
SECTION SUMMARY - SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING			
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	Bill No.3 : General Lighting	11	
	Bill No.4 : Luminaries	12	
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	Bill No.6 : Telephone and Data System	20	
	Bill No.7 : Sundry Items	23	
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SECTION 1 : ELECTRICAL INSTALLATION - MAIN BUILDING			R

SECTION 2 : ELECTRICAL INSTALLATION - BOREHOLE

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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 BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 2</u>				
	<u>ELECTRICAL INSTALLATION - BOREHOLE</u>				
	<u>BILL NO. 2</u>				
	<u>MAINS CABLING & WIRING</u>				
	<u>CABLING</u>				
	(SANS 150) PVCSWAPVC cables drawn into cable sleeves, installed on cable trays/ladders or laid in open trenches including cutting and off cuts				
	<u>16mm² x 3 Core</u>				
1	Supply.	m	30		
2	Install.	m	30		
	<u>10mm² x 3 Core</u>				
3	Supply.	m	15		
4	Install.	m	15		
	<u>TERMINATION FOR</u>				
	<u>16mm² x 3 Core</u>				
5	Supply.	No	2		
6	Install.	No	2		
	<u>10mm² x 3 Core</u>				
7	Supply.	No	2		
8	Install.	No	2		
	Carried to Collection				R
	SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL				
	Bill No.2 : Mains Cabling & Wiring				

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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 BILL OF QUANTITIES ELECTRICAL INSTALLATION

<u>CABLE SLEEVES</u>					
Heavy duty or flexible (Kabelflex) PVC cable sleeve laid in open trench including cutting and joining					
NOTE: Spare sleeves for future use to be sealed at both ends					
<u>110mm</u>					
1	Supply.	m	25		
2	Install.	m	25		
<u>110mm Slow Bends</u>					
3	Supply.	No	4		
4	Install.	No	4		
<u>50mm</u>					
5	Supply.	m	20		
6	Install.	m	20		
<u>50mm Slow Bends</u>					
7	Supply.	No	2		
8	Install.	No	2		
<u>TRENCHING FOR CABLES</u>					
<u>Trenching of cable trenches 600mm deep x 400mm wide including backfill and compacting</u>					
<u>Earth Or Pickable Ground</u>					
9	Install.	m	50		
<u>Soft Rock Requiring Use Of Pneumatic Tools</u>					
10	Install.	m3	5		
Carried to Collection				R	
SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL					
Bill No.2 : Mains Cabling & Wiring					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoe P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

1	<u>Allow For The Importing Of Suitable Soil To Be Used As Either Bedding Layer And/Or Backfilling Layer (Bedding To Be In Layer Of 75mm And Backfilling In Layer Of 150mm)</u>				
	Install.	m3	10		
	<u>FILLING OBTAINED FROM EXCAVATIONS AND/OR PRESCRIBED STOCK PILES ON SITE COMPACTED TO 95% MOD AASHTO DENSITY</u>				
2	<u>Allow For The Backfilling Of The Trenches, Using Imported Soil And/Or Selected (Excavated) Material</u>				
	Supply.	m3	10		
	<u>CABLES LABELLING</u>				
	<u>Label Cables On Both Ends With Numbering Beads Or Non-Corroding Straps To Indicate Their Connection Points</u>				
3	Supply.		Item		
	<u>CABLES WARNING TAPE</u>				
	<u>Skull And Crossbones Danger Tape</u>				
4	Supply.	m	30		
5	Install.	m	30		
	<u>CABLES MARKERS</u>				
	<u>Concrete Cable Markers Complete With Galvanised Wire Fastened To Cable And Aluminium Marker Plate With Description</u>				
6	Supply.	No	1		
7	Install.	No	1		
	<u>LOW VOLTAGE EARTHING</u>				
	<u>Allow For Bonding Of The Electrical Installation</u>				
8	Install.		Item		
Carried to Collection					R
SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL					
Bill No.2 : Mains Cabling & Wiring					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDofE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

EARTH SPIKES

**Supply, Delivery To Site, Installation Of Earth Spikes
Including All Fastening Materials, Lugs, Etc.**

1800mm x 16mm diameter.

1	Supply.	No	1
2	Install.	No	1

MANHOLES

**Double Skin Brick 700mm Deep Manhole With Heavy
Duty Civer With The Following Minimum Inside
Dimensions:**

Supply - inside dimensions: 9000mmL x 900mmW

3	Supply & install.	No	1
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Carried to Collection

SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL
 Bill No.2 : Mains Cabling & Wiring

R

BILL OF QUANTITIES ELECTRICAL INSTALLATION

Bill No.2 : Mains Cabling & Wiring

CONSTRUCTION OF NEW EDUCATIONAL ECD FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoe P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 2</u>				
	<u>ELECTRICAL INSTALLATION - BOREHOLE</u>				
	<u>BILL NO. 3</u>				
	<u>GENERAL LIGHTING</u>				
	<u>CONDUIT</u>				
	<u>20mm PVC (SANS 950) Conduit Chased Into Brickwork, Cast Into Concrete Or Fixed Onto Trusses Including Cutting, Bending, Saddles, Bushes, etc</u>				
1	Supply.	m	100		
2	Install.	m	100		
	<u>CONDUIT BOXES</u>				
	<u>PVC Round Box For 20mm Conduit, Back Or Side Entry For 1, 2, 3 Or 4-Way Chased Into Brickwork, Cast Into Concrete Or Fixed Onto Trusses Including Couplings Bushes, Cover Plates And Fixing Materials.</u>				
3	Supply.	No	6		
4	Install.	No	6		
	<u>Galvanised Steel, 100 x 50 x 50mm Box For 20mm Conduit Built Into Brickwork Or Cast In Concrete. (Cover Plates Measured Elsewhere)</u>				
5	Supply.	No	8		
6	Install.	No	8		
	Carried to Collection				R
	SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL				
	Bill No.3 : General Lighting				

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDōE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

EQUIPMENT AND CONTROL GEAR

16 Amp single lever, one way flush mounted.

1-Lever, 1-Way. (Water tight)

1	Supply.	No	1
2	Install.	No	1

Photo-cell.

3	Supply.	No	1
4	Install.	No	1

CONDUCTORS

PVC insulated single core copper conductors
 drawn into conduit or laid into wiring channels.

2,5mm² PVC Black and Red

5	Supply.	No	100
6	Install.	No	100

2,5mm² Yellow / Green

7	Supply.	No	50
8	Install.	No	50

Carried to Collection

SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL
 Bill No.3 : General Lighting

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 2 : ELECTRICAL INSTALLATION - BOREHOLE			
Bill No.3 : General Lighting			
<u>COLLECTION</u>			
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SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL			
Bill No.3 : General Lighting			

R

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 2</u>				
	<u>ELECTRICAL INSTALLATION - BOREHOLE</u>				
	<u>BILL NO. 4</u>				
	<u>LUMINARIES</u>				
	<u>Luminaries must be delivered with lamps packed separately. For Types, see "Schedule of Luminaries"</u>				
	<u>Type N - 20W LED Bulkhead Luminaire.</u>				
1	Supply.	No	6		
2	Install.	No	6		
	Carried Forward to Summary of Section No. 2				R
	SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL				
	Bill No.4 : Luminaries				

CONSTRUCTION OF NEW EDUCATIONAL ECD FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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BILL OF QUANTITIES ELECTRICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 2</u>				
	<u>ELECTRICAL INSTALLATION - BOREHOLE</u>				
	<u>BILL NO. 5</u>				
	<u>SMALL POWER</u>				
	<u>CONDUIT</u>				
	PVC (SANS 950) conduit chased into brickwork, cast into concrete or fixed onto trusses including cutting, bending, saddles, bushes, wastage, etc.				
	<u>20mm</u>				
1	Supply.	m	60		
2	Install.	m	60		
	<u>CONDUIT BOXES</u>				
	<u>PVC Round Box For 20mm Conduit, Back Or Side Entry For 1, 2, 3 Or 4-Way Chased Into Brickwork, Cast Into Concrete Or Fixed Onto Trusses Including Couplings Bushes, Cover Plates And Fixing Materials.</u>				
3	Supply.	No	4		
4	Install.	No	4		
	<u>Galvanised Steel, 100 x 100 x 50mm Box For 20mm Conduit Built Into Brickwork Or Cast In Concrete. (Cover Plates Measured Elsewhere)</u>				
5	Supply.	No	4		
6	Install.	No	4		
	Carried to Collection				R
	SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL				
	Bill No.5 : Small Power				

BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 2 : ELECTRICAL INSTALLATION - BOREHOLE

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
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 BILL OF QUANTITIES ELECTRICAL INSTALLATION

1	Install.	No	6		
	<u>2x 16A Single and 2x 6A Socket Outlet</u>				
2	Supply.	No	6		
3	Install.	No	6		
	<u>INDOOR SURFACE MOUNTED ISOLATORS INCLUDING BOX</u>				
	<u>20A - 32A DP</u>				
4	Supply.	No	2		
5	Install.	No	2		
	<u>20A - 32A DP</u>				
6	Supply.	No	2		
7	Install.	No	2		
Carried to Collection					R
SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL					
Bill No.5 : Small Power					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 2 : ELECTRICAL INSTALLATION - BOREHOLE			
Bill No.5 : Small Power			
<u>COLLECTION</u>			
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SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL			
Bill No.5 : Small Power			

R

SECTION 2 : ELECTRICAL INSTALLATION - BOREHOLE
Bill No.6 : Eskom Power Connection

BILL OF QUANTITIES ELECTRICAL INSTALLATION

SECTION 2 : ELECTRICAL INSTALLATION - BOREHOL

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCBOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES ELECTRICAL INSTALLATION

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2	SECTION 2 : ELECTRICAL INSTALLATION - BOREHOLE	44	
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	TOTAL CARRIED TO FINAL SUMMARY		R

MECHANICAL BOQ

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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BILL OF QUANTITIES - MECHANICAL INSTALLATION

Item No			Quantity	Rate	Amount
	<u>SECTION 1</u>				
	<u>MECHANICAL INSTALLATION - MAIN BUILDING</u>				
	<u>BILL NO.1</u>				
	<u>LP GAS INSTALLATION & VENTILATION SYSTEM</u>				
	<u>GAS STOVE (BOILING TABLES), COMPLETE WITH STAINLESS SPLASHBACKS ON SIDES AND BACK</u>				
	<u>Supply And Install Gas Boiling Table - 4 Burner (1100x600mm) , Gas Consumption per hob 390g/hr.</u>				
1	Supply.	No	1		
2	Install.	No	1		
	<u>PIPING INSTALLATION</u>				
	<u>PEX GAS PIPE</u>				
	<u>Pex Gas Pipe - 20 mm</u>				
3	Supply.	m	10		
4	Install.	m	10		
	<u>UV Protective Impact Sleeve</u>				
5	Supply.	m	10		
6	Install.	m	10		
	<u>Pex pipe Gas Galvanised Saddle - 25mm</u>				
7	Supply.	m	8		
8	Install.	m	8		
	Carried to Collection				
	SECTION 1 : MECHANICAL INSTALLATION - MAIN BUI				
	Bill No.1 : LP Gas Installation and Ventilation System				
				R	

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES - MECHANICAL INSTALLATION

<u>PEX GAS PIPE FITTINGS</u>					
<u>Pex Male Elbow 90° - 16mm</u>					
1	Supply.	No	4		
2	Install.	No	4		
<u>Tee Pex Fitting - 16mm</u>					
3	Supply.	No	4		
4	Install.	No	4		
<u>MAIN SHUT OFF VALVES</u>					
<u>Safe Gas Pex Shut OFF Valves</u>					
5	Supply.	No	2		
6	Install.	No	2		
<u>COUPLERS</u>					
<u>Safe Gas Pex Couplers - 20mm</u>					
7	Supply.	No	6		
8	Install.	No	6		
<u>HIGH PRESSURE REGULATOR TWO WAY</u>					
<u>Supply, Install and Commission High Pressure Regulator with Pigtails</u>					
9	Supply.	No	1		
10	Install.	No	1		
<u>LP GAS MANIFOLD</u>					
<u>Supply, Install and Commission 2x2 Stainless Steel Manifold</u>					
11	Supply.	No	1		
Carried to Collection				R	
SECTION 1 : MECHANICAL INSTALLATION - MAIN BUI					
Bill No.1 : LP Gas Installation and Ventilation System					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDofE P Nu : P9007203
 BILL OF QUANTITIES - MECHANICAL INSTALLATION

1	Install.	No	1		
	<u>LP GAS CYLINDERS</u>				
	<u>Supply, Install and Commission 4x48kg LP Gas Cylinders with holding Chains</u>				
2	Supply.	No	2		
3	Install.	No	2		
	<u>EMERGENCY SIGNAGES</u>				
	<u>Supply and Install LP Gas Shut OFF valves and LP Gas signages</u>				
4	Supply.			SUM	
5	Install.			SUM	
	<u>GALVANISED CYLINDERS CAGE</u>				
	<u>Supply, Install and Commission 4x48kg LP Gas Cylinders With Holding Chain</u>				
6	Supply.	No	1		
7	Install.	No	1		
	<u>TRAINING</u>				
	<u>Complete Training Of The Correct Usage And Dangers Of The Installation (To be Completed On A Date Specified By The Client. Including Additional Travelling Required After Completion Of Installation)</u>				
	<u>CERTIFICATE OF COMPLIANCE (COC)</u>				
	<u>Submit Complete Approval And Municipal Release Forms</u>				
8	Supply.		Item		
	Carried to Collection				
	SECTION 1 : MECHANICAL INSTALLATION - MAIN BUI				
	Bill No.1 : LP Gas Installation and Ventilation System				
				R	

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES - MECHANICAL INSTALLATION

SECTION 1 : MECHANICAL INSTALLATION - MAIN BUILDING			
Bill No.1 : LP Gas Installation and Ventilation System			
<u>COLLECTION</u>			
	Page No		Amount
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SECTION 1 : MECHANICAL INSTALLATION - MAIN BUI			
Bill No.1 : LP Gas Installation and Ventilation System			

R

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CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
 EMIS Nu. 200400085, ECDofE P Nu : P9007203
 BILL OF QUANTITIES - MECHANICAL INSTALLATION

1	Float switch (installed at top of water tank).	No	1	
2	2.5mm 2 Core ECC armoured electrical cable for float switch and steel conduit at water tanks.		Item	
3	Control Panel (to switch the pump on and manually).	No	1	
4	Borehole disinfection (complete per borehole).		Item	
5	No flow cut-off switch (Ajax series AF or similar approved).	No	1	
<u>BOREHOLE & PUMP TESTING</u>				
6	Borehole yield testing 24hrs.		Item	
7	Borehole yield testing 48hrs.		Item	
8	Pump testing 24hrs.		Item	
9	Pump testing 48hrs.		Item	
<u>REAMING OF BOREHOLE</u>				
10	165mm to 219mm diameter.		Item	
11	219mm to 254mm diameter.		Item	
<u>PUMPS, VALVES AND PIPE WORK</u>				
12	Water meter, FBE.	No	1	
13	Non-return valve, FBE.	No	1	
14	RSV gate valve, FBE.	No	1	
15	Ball valve (BSP threaded).	No	1	
16	Air valve (single orifice) with isolating valve and sampling tap.	No	1	
Carried to Collection				R
SECTION 2 : MECHANICAL INSTALLATION - BOREHO				
Bill No.1 : Borehole Pump & Fittings Pipe Work				

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES - MECHANICAL INSTALLATION

SECTION 2 : MECHANICAL INSTALLATION - BOREHOLE			
Bill No.1 : Borehole Pump & Fittings Pipe Work			
<u>COLLECTION</u>			
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SECTION 2 : MECHANICAL INSTALLATION - BOREHO			
Bill No.1 : Borehole Pump & Fittings Pipe Work			

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>MECHANICAL INSTALLATION - BOREHOLE</u>			
<u>BILL NO. 2</u>			
<u>SITE TESTING, COMMISSIONING & DOCUMENTATION</u>			
Installation Acceptance Testing Procedures:			
It is strongly recommended that installation and commissioning be undertaken in accordance with the manufactures recommendations and approved by the engineer before commissioning commencement.			
<u>TESTING & COMMSSIONING</u>			
1	Testing & commissioning of the entire system in accordance with manufacture recommendations.	SUM	
<u>AS BUILT DRAWINGS</u>			
2	Submit "As Built" drawings for approvals and carry out required changes for approval.	SUM	
<u>COMPLIANT CERTIFICATES</u>			
3	Submit Compliant Certificates for approvals and carry out required changes for approval.	SUM	
<u>DOCUMENTATION</u>			
4	Submit completed Approval and Guarantees.	Sets 3.0	
5	Hard copy: O & M manuals.	Sets 3.0	
6	Electronic copy: O & M manuals.	Sets 3.0	
Carried to Collection			R
SECTION 2 : MECHANICAL INSTALLATION - BOREHO			
Bill No.2 : Site, Commissioning & Documentation			

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDōE P Nu : P9007203
 BILL OF QUANTITIES - MECHANICAL INSTALLATION

**CONSTRUCTION AND BUILDERS WORK
 DRAWINGS**

- | | | | | | |
|---|--|------|--|--|--|
| 1 | Preparation and submission of construction drawing for engineers approval. | Item | | | |
|---|--|------|--|--|--|

CLOSE-UP REPORT

- | | | | | | |
|---|----------------------------------|------|--|--|--|
| 2 | Installation Report. | Item | | | |
| 3 | Staff Training. | Item | | | |
| 4 | Galvanised Piping - Certificate. | Item | | | |

Carried to Collection

SECTION 2 : MECHANICAL INSTALLATION - BOREHO
 Bill No.2 : Site, Commissioning & Documentation

R

NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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BILL OF QUANTITIES - MECHANICAL INSTALLATION

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BILL OF QUANTITIES - MECHANICAL INSTALLATION

SECTION 2 : MECHANICAL INSTALLATION - BOREHO

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCBOBO
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 BILL OF QUANTITIES - MECHANICAL INSTALLATION

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FIRE BOQ

SECTION 1

FIRE INSTALLATION

BILL NO.1

FIRE PROTECTION AND DOMESTIC HOT WATER SYSTEM

FIRE PROTECTION INSTALLATION

Supply, Install, test, commission and provide 12 month guarantee for portable fire extinguishers (SANS 1910 compliant) fixed to wall with 250 x 500 x 25mm wrot Meranti backboard plugged and countersunk screwed to wall, complete with mild steel hook and brackets, etc.

5kg CO2 Hand Held Portable Fire Extinguisher

1	Supply.	No	1
---	---------	----	---

2	Install.	No	1
---	----------	----	---

4.5 kg Dry Chemical Powder Hand Held Portable Fire Extinguisher

3	Supply.	No	3
---	---------	----	---

4	Install.	No	3
---	----------	----	---

Fiber Glass Fire Cabinet To House 1 x 5 kg CO2 (Carbon Dioxide)

5	Supply.	No	1
---	---------	----	---

6	Install.	No	1
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BACKING BOARD

Carried to Collection

R

SECTION 1 : FIRE INSTALLATION

Bill No.1 : Fire Protection and Domestic Hot Water Syste

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
EMIS Nu. 200400085, ECDoE P Nu : P9007203
BILL OF QUANTITIES - FIRE INSTALLATION

<u>Supply, Install, Test and Commission Backing Board For Portable Fire Extinguishers With Mounting Screws.</u>					
1	Supply.	No	4		
2	Install.	No	4		
<u>FIRE SIGNAGE</u>					
<u>Supply and Install Running Man Signage</u>					
3	Supply.	No	4		
4	Install.	No	4		
<u>Supply and Install Exit Signage</u>					
5	Supply.	No	4		
6	Install.	No	4		
<u>CERTIFICATE OF COMPLIANCE</u>					
<u>A Fire Certificate of Compliance</u>					
7	Supply.	No	1		
<u>SOLAR GEYSER</u>					
<u>All material supplied shall be SABS approved and installation by accredited installars. Complete installation to be in accordance with SANS standards</u>					
Carried to Collection				R	
SECTION 1 : FIRE INSTALLATION					
Bill No.1 : Fire Protection and Domestic Hot Water Syste					

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOCO
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 BILL OF QUANTITIES - FIRE INSTALLATION

100 Litre Tank specification: Diameter - 550, Length - 1190mm, Bracket - 1000mm, Weight - 45kG, IPX rating - 4, Boiler material - 2.0mm steel, Casing material - 0.5mm Galvanised, Corrosion protection - ±3.0mm PEX, Guarantee - 10 Years, Suitable for all water conditions, Maintenance free, Insulation - 60mm off centre polyurethane foam, Electrical backup - 2kW Electrical element with adjustable thermost, additional pocket control probe, Horizontal orientation, Safety valve operating temperature - 93° C - 98° C, Heat loss <1.94kW/24h. 'Flat plate collector specification: Effective Thermal Capacity - 16.96kJ/K, Total area - 2.005m x 1.003m = 2.01 square meters, Cover Material - Tempered Glass, Thickness of cover - 3mm, Thickness of absorber plate - 0.5mm, Absorption Coefficiency - 95 ± 2%, Number of Tubes - 7, Volume of absorber - 1.66L, Weight - 32kG, Guarantee - 5 Years

1	Supply.	No	1
2	Install.	No	1

Carried to Collection

R

SECTION 1 : FIRE INSTALLATION

Bill No.1 : Fire Protection and Domestic Hot Water Syste

CONSTRUCTION OF NEW EDUCATIONAL ECDC FACILITIES : CDC/329/24
 AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO
 EMIS Nu. 200400085, ECDoE P Nu : P9007203
 BILL OF QUANTITIES - FIRE INSTALLATION

SECTION 1 : FIRE INSTALLATION			
Bill No.1 : Fire Protection and Domestic Hot Water System			
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Bill No.1 : Fire Protection and Domestic Hot Water Syste			

AT COBOSI PRIMARY JUNIOR SCHOOL, ENGCOBO

EMIS Nu. 200400085, ECDoE P Nu : P9007203

BILL OF QUANTITIES - FIRE INSTALLATION

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**OHS BoQ SUMMARY TOTAL - TO BE CARRIED
TO PRELIMINARIES ITEM NO. C10
OCCUPATIONAL HEALTH AND SAFETY ACT**

BILL OF QUANTITIES FOR HEALTH AND SAFETY

	Description	Unit	Qty	Rate	Total
1.	Notify the provincial director in writing of the commencement of construction work with and including submission of a letter of receipt and acknowledgement of the aforementioned notice by the director of his/her representative	item	01		
2.	Allow for the necessary Workman's Compensation Fund or FEM contributions for the duration of the project with and including renewals	item	01		
3.	Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]	item	01		
4.	Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]	Months	10		
5.	Allow for the appointment of a Full-Time Competent Construction Health & Safety Officer/ CHSO registered with SACPCMP (who has 2 or more years working experience) to assist in the control of all health and safety related aspects on site as per [CR 8(5)]	Months	10		
6.	Provide for appointment of responsible and competent person/s to manage and supervise the works and administer and enforce health and safety on site as per [CR 8(1), (2), & (7)]	Months	10		
7.	Allow for provision of telecommunication facilities for the appointed Construction Health & Safety Officer	Months	10		
8.	Allow for provision of Basic Emergency Preparedness and Response equipment & at least Level 2 First Aider/s	Months	10		
	Provide, supply and maintenance for each worker the following SANS approved personal protective equipment & clothing as per the site-specific risk assessments:	Months	10		

	(Including but not limited to the following).				
9.	Hard Hats (High Density polyethylene, & 6-point lining)	As per required number			
10.	Overall/work suit (100% Cotton)	As per required number			
11.	Safety boots/shoes (Steel-Toe)	As per required number			
12.	Gumboots Boots (Steel-toe)	As per required number			
13.	Safety gloves	As per required number			
14.	Ear Plugs/Muffs	As per required number			
15.	Dust Mask (at least FF2 type)	As per required number			
16.	Respirators	As per required number			
17.	Safety goggles	As per required number			
18.	Personal Fall arrest and rescue equipment with and including lifelines and associated equipment	As per required number			
19.	High visibility reflective vests and/or bibs	As per required number			
20.	Temporary handrails, toe boards other than for access scaffolding	As per required number			
21.	SANS approved safety netting (orange color with minimum of 1,2 meters high)	As per required meters			
22.	Allow for Pre-employment medical examinations	All employees	All employees		
23.	Allow for exit medical examinations	All employees	All employees		
24.	Mobile toilets and waste removal	As per need			
25.	First Aid Box	As per need			
26.	Fire Extinguisher Equipment	As per need			
27.	1200mm surveyor poles for Barricading net	As per need			

28.	Drip trays	As per need			
29.	Waste bins	As per need			
30.	Site Signage				
31.	Provision for drinkable water				
	HEALTH AND SAFETY EDUCATION				
32.	Allow for HIV/AIDS awareness and Implementation programmes, including STI and TB	Months	01		
33.	Allow for all compulsory health and safety awareness programme (e.g. Inductions, toolbox Talks, Safety Promotions, H&S related training, etc.)	Months	01		
	ENVIRONMENTAL				
34.	Provide for adequate handling and storage of materials so as to minimize contamination of ground, air or water.	Item	1		
35.	Provide for the adequate and safe collection and disposal of waste material from site by an approved method.	Item	1		
	Provide Facilities and Eating Area for workers.	Item	1		
36.	Provide for rehabilitation on completion of site areas and temporary access routes not covered by construction or landscaping specifications.	Item	1		
	COMPULSORY BREAKDOWN FOR THE ADJUSTMENT OF PRELIMINARIES				
37.	Value Related	Item			
38.	Fixed Value Related	Item			
39.	Time Related	Item			
40.	TOTAL				

C2.3 FINAL SUMMARY

Section No	FINAL SUMMARY	Page No	Amount
1	SECTION 1 : PRELIMINARIES & GENERAL	36	
2	SECTION 2 : BUILDING WORKS	103	
3	SECTION 3 : EXTERNAL WORKS (PROVISIONAL)	154	
4	SECTION 4 : BOREHOLE	178	
5	SECTION 5 : SOCIO ECONOMIC AND DIRECT CONTRACT	181	
	TOTAL OF WORKS INCLUDING PRELIMINARIES:		R
	<u>PART B - ELECTRICAL INSTALLATION</u>		
	Brought forward total for Electrical Installation (Part B) excluding VAT attached in this tender document.	Item	
	<u>PART C - MECHANICAL INSTALLATION</u>		
	Brought forward total for Mechanical Installation (Part C) excluding VAT attached in this tender document.	Item	
	<u>PART D - FIRE INSTALLATION</u>		
	Brought forward total for Fire Installation (Part D) excluding VAT attached in this tender document.	Item	
	TOTAL BUILDING WORKS INCLUDING PART B, C & D:		R
	<u>BUDGETORY AMOUNTS</u>		
	<u>The Following Monetary Provisions Are To Be Omitted From The Contract Sum And Used As Directed Below:</u>		
	Provide the Sum of R300 000.00 for Contingencies, to be adjusted, used and paid as instructed and approved by the Client in terms of clause 17, 25 and 26 of the JBCC Principal Building Agreement.	Item	300,000.00
			R

R

PART T2 – RETURNABLE DOCUMENTS

SBD4 DISCLOSURE

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 Tender 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

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.

with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....

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 consortium² 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.
- 3.5 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

² 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.

contract.

- 3.6 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.
- 3.7 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 ENHANCING COMPLIANCE, TRANSPARENCY AND ACCOUNTABILITY IN SUPPLY CHAIN MANAGEMENT SHOULD THIS DECLARATION PROVE TO BE FALSE.

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

CONTRACT NO.: CDC/329/24, EMIS Nu.: 200400085, ECDoe P Nu.: P9007203

SBD6.1 PREFERENCE POINTS CLAIM FORM

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

This preference form must form part of all tenders 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 TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

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

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

1.2 To be completed by the organ of state

a) The applicable preference point system for this tender is the 80/20 preference point system.

1.3 Points for this tender (even in the case of a tender 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 tender are allocated as follows:

	POINTS
PRICE	80.00
SPECIFIC GOALS	20.00
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a Bidder to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, 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 tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

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2. DEFINITIONS

- (a) **“tender”** 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 tendering 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; and
- (d) **“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 PREFERENCE POINT SYSTEMS

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

80/20

$$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

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 tender. For the purposes of this tender 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 tender:

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system)	Number of points claimed (80/20 system) (To be completed by the Bidder)
B-BBEE Status Level of Contributor 1	20	
B-BBEE Status Level of Contributor 2	18	
B-BBEE Status Level of Contributor 3	16	
B-BBEE Status Level of Contributor 4	12	
B-BBEE Status Level of Contributor 5	8	

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B-BBEE Status Level of Contributor 6	6	
B-BBEE Status Level of Contributor 7	4	
B-BBEE Status Level of Contributor 8	2	
Non-compliant contributor	0	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.2. Name of company/firm.....

4.3. Company registration number:

4.4. 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]

4.5. 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 tender, 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 tendering 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.

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.....
SIGNATURE(S) OF Bidder(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

.....

T2.1.1 – FORM A SCHEDULE OF WORK

**CONSTRUCTION OF NEW ECDC EDUCATIONAL FACILITIES
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CONTRACT NO.: CDC/329/24, EMIS Nu.: 200400085, ECD&E P Nu.: P9007203**

T2.1.1 FORM A: Schedule of Work Carried out by the Bidder.

The Bidder shall list below the projects of a similar nature and highest value awarded to him over the last 5 years.

Details of contactable references for each project listed must be included. At least three (3) traceable CLIENT references must be provided.

Contractors MUST attach appointment letter, completion certificates from previous employers or consultants that they have worked with. This information is essential to the award of the Contract.

EMPLOYER (Name, Tel No and Fax No)	LEAD CONSULTANT (Name, Tel No and Fax No)	NATURE OF WORK	VALUE OF WORK	YEAR OF COMPLETION

SIGNATURE: **DATE:**
(of person authorised to sign on behalf of the Bidder)

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FORM A (continue): Schedule of Current Contracts

The Bidder shall list below the current projects awarded to his company.

Traceable and contactable references for each project listed must be included.

Contractors MUST attach appointment letters. This information is essential to the award of the Contract.

EMPLOYER (Name, Tel No and Fax No)	LEAD CONSULTANT (Name, Tel No and Fax No)	NATURE OF WORK	VALUE OF WORK	EXPECTED COMPLETION DATE

SIGNATURE: **DATE:**
(of person authorised to sign on behalf of the Bidder)

T2.1.2 – FORM B PROPOSED KEY PERSONNEL

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T2.1.2 FORM B: Proposed Key Personnel

The Bidder shall list below the key personnel (including first nominee and the second choice alternate), whom he proposes to employ on the contract should his offer be accepted, both at his headquarters and on the Site, to direct and for the execution of the work, together with their qualifications, experience, positions held and their nationalities.

CV's of the critical staff members such as Contract Manager, Site Agent, Foreman and Health & Safety Officer (

LOCATION	DESIGNATION	NAME AND NATIONALITY OF: (i) NOMINEE (ii) ALTERNATE	SUMMARY OF QUALIFICATIONS, EXPERIENCE AND PRESENT OCCUPATION
	Contract Manager	i) ii)	
SITE OFFICE	Site Agent	i) ii)	

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LOCATION	DESIGNATION	NAME AND NATIONALITY OF: (i) NOMINEE (ii) ALTERNATE	SUMMARY OF QUALIFICATIONS, EXPERIENCE AND PRESENT OCCUPATION
	Foreman	i)	
		ii)	
	Health & Safety Officer	i)	
		ii)	
	SMM Manager	i)	
		ii)	

SIGNATURE:

DATE:.....

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

**T2.1.3 – FORM C SCHEDULE OF PROPOSED SUB-
CONTRACTORS**

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T2.1.43 FORM C: Schedule of Proposed Sub-Contractors

I/We hereby notify you that it is my/our intention to employ the following Sub-Contractors for work in this contract.

NAMES AND ADDRESSES OF PROPOSED SUB-CONTRACTORS	NATURE AND EXTENT OF WORK TO BE SUB-CONTRACTED	PREVIOUS EXPERIENCE WITH SUB-CONTRACTOR OR RECENT WORK EXECUTED BY THE SUB-CONTRACTOR	LOCAL BASED (Yes or No)	BEE Level (Indicate)

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NAMES AND ADDRESSES OF PROPOSED SUB-CONTRACTORS	NATURE AND EXTENT OF WORK TO BE SUB-CONTRACTED	PREVIOUS EXPERIENCE WITH SUB-CONTRACTOR OR RECENT WORK EXECUTED BY THE SUB-CONTRACTOR	LOCAL BASED (Yes or No)	BEE Level (Indicate)

SIGNATURE:

DATE:.....

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

T2.1.4 – FORM D PARTICULARS OF ELECTRICAL CONTRACTOR

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T2.1.4 FORM D: Particulars of Electrical Contractor

I/We hereby notify you that it is my/our intention to employ the following Electrical Contractor for work in this contract.

NAME AND ADDRESS OF PROPOSED ELECTRICAL CONTRACTOR	NATURE AND EXTENT OF WORK	PREVIOUS EXPERIENCE WITH ELECTRICAL CONTRACTOR OR RECENT WORK EXECUTED BY THE ELECTRICAL CONTRACTOR	LOCAL BASED (Yes or No)	BEE Level (Indicate)

SIGNATURE: **DATE:**.....
(of person authorised to sign on behalf of the Bidder)

T2.1.5 – FORM E FINANCIAL REFERENCES

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T2.1.5 FORM E: Financial References

Financial Statements

I/We agree, if required, to furnish an audited, signed copy of the latest set of financial statements together with my/our Directors' and Auditors' report for consideration by the Employer.

Details of Company's Bank

I/We hereby authorise the Employer/Engineer to approach all or any of the following banks for the purposes of obtaining a financial reference:

DESCRIPTION OF BANK DETAIL	BANK DETAILS APPLICABLE TO BIDDER'S HEAD OFFICE
Name of Bank	
Branch Name	
Branch Code	
Street Address	
Postal Address	
Name of Manager	
Telephone Number	()
Fax Number	()
Account Number	

SIGNATURE:
(of person authorised to sign on behalf of the Bidder)

DATE:.....

T2.1.6 – FORM F ESTIMATED MONTHLY EXPENDITURE

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T2.1.6 FORM F: Estimated Monthly Expenditure

The Bidder shall state below the estimated value of work to be completed every month based on his preliminary programme and his tendered unit rates.

*** The amounts for contingencies and Contract Price Adjustment must not be included.**

MONTH	VALUE (R)	MONTH	VALUE (R)	MONTH	VALUE (R)
1		13		25	
2		14		26	
3		15		27	
4		16		28	
5		17		29	
6		18		30	
7		19		31	
8		20		32	
9		21		33	
10		22		34	
11		23		35	
12		24		36	
TOTAL Y1	R	TOTAL Y2	R	TOTAL Y3	R

TOTAL Y1+Y2+Y3 = R.....

SIGNATURE:

DATE:

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

**T2.1.7 – FORM G DETAILS OF AMENDMENTS AND
QUALIFICATIONS**

T2.1.7 FORM G: Details of Amendments and Qualifications

AMENDMENTS AND QUALIFICATIONS

I / We herewith propose the amendments and discounts as set out in the tables below:

(a) AMENDMENTS

PAGE, CLAUSE OR ITEM NO	PROPOSED AMENDMENT

[Notes: (1) Amendments to the Contract Data are not acceptable;

(2) The Bidder must give full details of all the financial implications of the amendments and qualifications in a covering letter attached to his tender.]

(b) ALTERNATIVES

PROPOSED ALTERNATIVE	DESCRIPTION OF ALTERNATIVE

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[Notes: (1) Individual alternative items that do not justify an alternative tender, and an alternative offer for time for completion should be listed here.

(2) In the case of a major alternative to any part of the work, a separate Bill of Quantities, programme, etc, and a detailed statement setting out the salient features of the proposed alternatives must accompany the tender.]

(c) DISCOUNTS

ITEM ON WHICH DISCOUNT IS OFFERED	DESCRIPTION OF DISCOUNT OFFERED

[Note: The Bidder must give full details of the discounts offered in a covering letter attached to his tender, failing which, the alternative offer will be prejudiced]

SIGNATURE:
(of person authorised to sign on behalf of the Bidder)

DATE:.....

T2.1.8 – FORM H POPIA CONSENT

T2.1.8 FORM H: PROTECTION OF PERSONAL INFORMATION: CONSENT

The introduction of The Protection of Personal Information Act (POPIA) ensures the regulation of personal information through its entire life cycle of collection, transfer, storing and deletion.

As part of its business activities, the Coega Development Corporation (CDC) obtains and requires access to personal data from a wide range of internal and external parties, including without limitation bidders who respond to requests for proposals that are published by the CDC from time to time. The CDC confirms that it shall process the information disclosed by bidders for the purpose of evaluating and subsequently awarding/appointing a successful Bidder.

The CDC hereby states that it does not and will never modify, amend, or alter any personal information submitted to it by a Bidder. Unless directed to do so by an order of court, the CDC does not disclose or permit the disclosure of any personal information to any Third Party without the prior written consent of the owner of the information.

Similarly, bidders will from time-to-time access and will be seized with information of a personal nature pertaining to the CDC. Some of the information may, because of legislative compliances be available in the public domain, whilst some is uniquely provided to bidders in pursuit of procurement or other business-related activities. In this regard, the CDC requires that bidders which receive or have access to its personal information, process any such information in a manner compliant with the requirements of the POPIA.

AGREEMENT

1. The CDC and the Bidder (the Parties) agree and undertake that upon obtaining and having access to personal information relating to either of them, they shall always ensure that:
 - a) They process the information only for the express purpose for which it was obtained.
 - b) Information is provided only to designated and authorized personnel who require the personal information to carry out the Parties' respective obligations in terms of the Procurement processes.
 - c) They will introduce, and implement all reasonable measures ensure the protection of all personal information from unauthorized access and/or use.
 - d) They have taken appropriate measures to safeguard the security, integrity, and authenticity of all personal information in its possession or under its control.
 - e) The Parties agree that if personal information will be processed for any other purpose other than the one for which the accessing of the information was intended, explicit written consent will be obtained prior to the execution of such reason.
 - f) The Parties shall carry out regular assessments to identify all reasonably foreseeable internal and external risks to the interception of personal information in its

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possession or under its control and shall implement and maintain appropriate controls in mitigation of such risks.

2. The Parties agree that they will promptly return or destroy any personal data in their possession or control which belongs to the other Party once it no longer serves the purpose for which it was collected, subject to any legal retention requirements. The information will be destroyed in such a manner that it cannot be reconstructed to its original form, linking it to any individual or organisation.
3. Tenderer's Obligations:
 - a) The Bidder is required to notify the Information Officer of CDC, in writing as soon as possible after it becomes aware of or suspects any loss, unauthorised access or unlawful use of any of the CDC's personal information.
 - b) The Bidder shall, at its own cost, promptly and without delay take all necessary steps to mitigate the extent of the loss or compromise of personal data.
 - c) The Bidder shall be required to provide the CDC with details of the persons affected by the compromise and the nature and extent of the compromise, including details of the identity (if known) of the unauthorized person who may have accessed or acquired the personal data.
 - d) The Bidder undertakes to co-operate with any investigation relating to security breach which is carried out by or on behalf of CDC.

On behalf of the Bidder:

.....
Signature

.....
Date

.....
Position

.....
Name of the Bidder

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On behalf of the Client:

.....

Signature

.....

Date

.....

Position

.....

Name of Client Representative

T2.1.9 FORM I SCHEDULE OF CONSTRUCTION PLANT AND EQUIPMENT

**CONSTRUCTION OF NEW ECD EDUCATIONAL FACILITIES
AT COBOSI PRIMARY JUNIOR SCHOOL
CONTRACT NO.: CDC/329/24, EMIS Nu.: 200400085, ECDoe P Nu.: P9007203**

T2.1.9 FORM I: Schedule of Construction Plant and Equipment

The following are lists of major items of relevant equipment that I/we presently own or lease and will have available for this contract or will acquire or hire for this contract if my/our tender is accepted.

(a) Details of major equipment that is owned by and immediately available for this contract.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

(b) Details of major equipment that will be hired, or acquired for this contract if my/our tender is acceptable.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

SIGNATURE: **DATE:**
(of person authorised to sign on behalf of the Bidder)

T2.1.10 FORM K1 SMME LEP TARGET FORM

T2.1 10 FORM K1: LOCAL SUPPLIER TARGETTED EXPENDITURE FORM

The Bidder is obliged to commit to a percentage expenditure, including VAT, that will be spent in the defined targeted areas – see section below Table A2 in the functionality section contained in Volume 1 of the Tender Documents.

The overall percentage in the table below will be monitored during construction for compliance. Penalties may be applied for achieving less than the stated %.

The expenditure may be in respect of materials, plant hire, fuel, skilled and un-skilled labour and sub-contractors and must be proven expenditure that is directly attributable to the contract. The value claimed under this Target may not be duplicated with the Contract Participation Goal (Form K2).

The percentage expenditure shall be calculated on the Tendered Sum (including VAT), but excluding contingencies, socio-economic deliverables and EPWP allowance (if applicable). Penalties may be applied for achieving less than the stated expenditure. Compliance during construction will be based on the percentage tendered, and not on the rand value.

CONTRACT NUMBER : **CDC/329/24**

CONTRACT DESCRIPTION :

PROJECT MANAGER :

BIDDER/S NAME :

I/We tender the following targets of expenditure on “Local suppliers”:

LOCAL SUPPLIER EXPENDITURE TARGETS		
AREA	% of the project value Tendered	Estimated RAND Value (R)
Area 1	%	R
Area 1 and 2	%	R
Area 1, 2 and 3	%	R
Area 1,2,3 and 4	%	R

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I/We commit to achieving the above-mentioned Local Area- based expenditure and to respond promptly to points of clarification regarding my/our targets, failing which I/we understand that my/our Tender will be deemed non-responsive on the grounds of being incomplete and not meeting the mandatory requirements as stipulated in the Tender.

Duly authorised to sign on behalf of: (name of Bidder)	:	

Name of Person signing	:	
------------------------	---	--

Signature	:	
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Date	:	
------	---	--

T2.1.11 FORM K CONTRACT PARTICIPATION GOAL

T2.1.11 FORM K2 : CONTRACT PARTICIPATION GOAL: EME / QSE Target Form

A Contract Participation Goal (CPG) of 33% (by value, excluding contingencies, escalation, VAT, Socio-economic deliverables, and EPWP allowances (if applicable)) is encouraged in this contract. The Tenderer is to targeted works that can be performed by EMEs/QSEs as subcontractors. The EME/ QSE targeted CPG must be calculated in relation to every entity involved in the project as defined in the CDC SMME Specification document.

The identification of SMME packages post-award will be done in conjunction with the CDC SMME Unit and the project team. The sourcing, procurement, appointment, mentoring, and graduating of SMMEs will be done in accordance with the CDC SMME Specification.

The overall percentage committed to will be monitored during construction for compliance. Penalties may be applied for achieving less than the stated CPG %.

The service provider is to fill in the section provided below.

CONTRACT NUMBER : **CDC/329/24**

CONTRACT DESCRIPTION :

PROJECT MANAGER :

Bidder/S NAME :

I/We tender the following targets of:

Exempted Micro Enterprises (EME's) / SMME's Participation		
Participation	% Goal Tendered	Estimated RAND Value (R)
SMME Packages committed	%	R
Overall % Contract Participation Goal (Not less than 33%)	%	R

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CONTRACT NO.: CDC/329/24, EMIS Nu.: 200400085, ECDoe P Nu.: P9007203**

I/We commit to achieving the above-mentioned Contract Participation Goal and to respond promptly to points of clarification regarding my/our CPG's, failing which I/we understand that my/our Tender will be deemed non-responsive on the grounds of being incomplete and not meeting the mandatory requirements as stipulated in the Tender.

Penalty on non-compliance/not achieving the committed minimum target of 33% participation

"The bidders must allow for all costs application that they may feel be associated with the successful integration, development of and completion of SMME Contractors' work to the approval of the Principal Agent on this project. This includes all the costs associated with the provision of an SMME Participation as stipulated on the Form K at a minimum of 33% of construction costs excluding VAT, Contingencies and Escalation". The employer shall be entitled without prejudice to its other remedies under the contract, deduct from the contract price, as penalty calculated on the following formula

$33\% \text{ of PV (in monetary value) } - \% \text{age AV (in monetary value)} = \text{PAV (in monetary value)}$;

where PV = Project Value,

where AV= Achieved SMME Participation Value,

where PAV = Penalty Accumulated Value

Penalty = $\text{Target @ } 33\% - \% \text{ Achieved SMME Participation}$ = Balance of the % not achieved (which would be the penalty for non-compliance)

Duly authorised to sign on behalf of: (name of Bidder)	:	
---	---	--

Name of Person signing	:	
------------------------	---	--

Signature	:	
-----------	---	--

Date	:	
------	---	--

T2.1.12 FORM L RECORD OF ADDENDA TO TENDER DOCUMENT

**CONSTRUCTION OF NEW ECD EDUCATIONAL FACILITIES
AT COBOSI PRIMARY JUNIOR SCHOOL
CONTRACT NO.: CDC/329/24, EMIS Nu.: 200400085, ECDoe P Nu.: P9007203**

T2.1.12 FORM L: Record of Addenda to Tender Documents

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

	Date	Title or Details
1		
2		
3		
4		
5		

Attach additional pages if more space is required.

Signed:

Date:

Name:

Position:

SIGNATURE:
(of person authorised to sign on behalf of the Bidder)

DATE:

T2.1.13 FORM M PROPOSED CONSTRUCTION WORK PROGRAMME

**CONSTRUCTION OF NEW ECD EDUCATIONAL FACILITIES
AT COBOSI PRIMARY JUNIOR SCHOOL
CONTRACT NO.: CDC/329/24, EMIS Nu.: 200400085, ECDoe P Nu.: P9007203**

T2.1.13 FORM M: Proposed Construction Work Methodology

Bidders must provide an approach paper (Methodology and Technical approach) detailing the execution of the project which is consistent with the construction programme.

The Methodology is to make reference to the scope of works and SHEQ issues, and must also include contingency planning and management. The key risk factors affecting the project should be described with possible mitigation action.

Proposed Construction Work programme and Methodology attached hereto.

(Please Tick)

YES		NO	
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SIGNATURE:

DATE:

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

T2.1.14 FORM N B-BBEE VALIDATION, CIDB & CSD

T2.1.14 FORM N: BBEE Validation, CIDB Certificates and CSD Registration document

1. The Bidder shall attach to this page a valid and Tax Compliance Status (PIN)

Original and Valid Certificate attached :

(Please Tick)

YES		NO	
-----	--	----	--

2. The Bidder shall attach to this page a certified copy of the BBEE Validation Certificate issued by an accredited Verification Agency and/or financial statement in case of an EME/SMME.

In a case of Joint Ventures (JV) each JV partner must submit their BBEE Validation Certificate.

Certified copy attached :

(Please Tick)

YES		NO	
-----	--	----	--

1. The Bidder shall attach to this page a copy of their CIDB Registration Certificate

In the case of Joint Ventures (JV) each JV partner must submit their CIDB Registration Certificate and a copy of the consolidated certificate using the CIDB JV Calculator.

Certified Copy attached :

(Please Tick)

YES		NO	
-----	--	----	--

2. The Bidder shall attach to this page a copy of their CSD Registration Certificate

In the case of Joint Ventures (JV) each JV partner must submit their CSD Registration Certificate.

Printout attached :

(Please Tick)

YES		NO	
-----	--	----	--

SIGNATURE:
(of person authorised to sign on behalf of the Bidder)

DATE:.....

**B-BBEE EXEMPTED AFFIDAVIT FOR EXEMPTED MICRO ENTERPRISES
(ISSUED IN TERMS OF THE AMENDED CONSTRUCTION SECTOR CODE)**

(Gazette Vol. 630 No. 41287)

Issued in terms of paragraph 3.6.2.4.1 (B)

I, the undersigned,

Full names and surname	
Identity number	

Hereby declare under oath as follows:

- The contents of this statement are to the best of my knowledge a true reflection of the facts.
- I am a Member / Director / Owner of the following enterprise and am duly authorized to act on its behalf:

Enterprise Name:			
Trading Name (If Applicable):			
Registration Number:			
Physical Address:			
Type of Entity (CC, (Pty) Ltd, Sole Prop etc.):			
Nature of Construction Business: <i>Indicate the applicable category with a tick.</i>	BEP (Built Environment Professional)	Contractor	Supplier
Definition of "Black People"	As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 "Black People" is a generic term which means Africans, Coloureds and Indians – who are citizens of the Republic of South Africa by birth or descent; or who became citizens of the Republic of South Africa by naturalization before 27 April 1994; or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date;"		
Definition of "Black Designated Groups"	"Black Designated Groups" means: (a) unemployed black people not attending and not required by law to attend an educational institution and not awaiting admission to an educational institution; (b) Black people who are youth as defined in the National Youth Commission Act of 1996; (c) Black people who are persons with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act; (d) Black people living in rural and under developed areas; (e) Black military veterans who qualifies to be called a military veteran in terms of the Military Veterans Act 18 of 2011;"		

- I hereby declare under Oath that as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,

- The Enterprise is _____ % Black Owned
- The Enterprise is _____ % Black Female Owned
- The Enterprise is _____ % Owned by Black Designated Group (provide Black Designated Group Breakdown below as per the definition in the table above)
 - Black Youth % _____ %
 - Black Disabled % _____ %
 - Black Unemployed % _____ %
 - Black People living in Rural areas % _____ %
 - Black Military Veterans % _____ %

- Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end of _____, **(dd/mm/yyyy)** the annual Total Revenue was less than the applicable amount confirmed **by ticking the applicable box below.**

BEP	R1.8 million	
Contractor	R3.0 million	
Supplier	R3.0 million	

If the turnover exceeds the applicable amount in the table above then this affidavit is no longer applicable and an EME certificate must be obtained from a rating agency accredited by SANAS or when applicable a B-BBEE Verification Professional Regulator appointed by the Minister of Trade and Industry.

- Please Confirm on the below table the B-BBEE Level Contributor, **by ticking the applicable box below.**

100% Black Owned	Level One (135% B-BBEE procurement recognition level)	
At least 51% Black Owned	Level Two (125% B-BBEE procurement recognition level)	
At least 30% Black Owned	Level Four (100% B-BBEE procurement recognition level)	
Less than 30% Black Owned	Level Five (80% B-BBEE procurement recognition level)	

- I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.
- The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Deponent Signature: _____

Date: _____

Commissioner of Oaths
Signature & stamp

T2.1.15 FORM O QUALITY CONTROL SYSTEMS AND PROCEDURES

**CONSTRUCTION OF NEW ECD EDUCATIONAL FACILITIES
AT COBOSI PRIMARY JUNIOR SCHOOL
CONTRACT NO.: CDC/329/24, EMIS Nu.: 200400085, ECDoe P Nu.: P9007203**

T2.1.15 FORM O: Quality Control System and Procedures

The bidders are to provide documentation indicating the availability of a quality management system or quality management plan that will be utilized for this project.

The bidders must demonstrate that the system is functional and is being utilized by the Bidder, and that on this project it will adequately fulfill the required quality assurance standards.

Quality control documentation attached hereto -

(Please Tick)

YES		NO	
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SIGNATURE:

DATE:

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

T2.1.16 FORM P PERFORMANCE EVALUATION FORM

CDC/329/24 CONSTRUCTION OF ECD CENTRE AT COBOSI PRIMARY JUNIOR SCHOOL
SUPPLIERS PERFORMANCE EVALUATION FORM

PROJECT NUMBER		
CONTRACT NUMBER		
PROJECT NAME		
SERVICE PROVIDER		
PROJECT MANAGER		
PROJECT VALUE		
PROJECT DURATION AND START DATE		
PROJECT STATUS (Planning/Design/Construction/Completed)		
REVIEW PERIOD	FROM:	TO:
EVALUATION DATE		

EARNED VALUE MANAGEMENT	
COST VARIANCE (CV)	
SCHEDULE VARIANCE (SV)	
COST PERFORMANCE INDEX (CPI)	
SCHEDULE PERFORMANCE INDEX (SPI)	

Measures of Performance

Evaluation Indicators			Final Score	EXCELLENT 5	VERY GOOD 4	GOOD 3	POOR 2	UNSATISFACTORY 1
Quality Compliance				SP delivered an excellent final product which exceeded the client's expectations, met with all contractual requirements without exceeding the project schedule or the project cost. SP provided value engineering capability during the project reducing or maintaining original cost estimates whilst still maintaining high standards of product quality	SP not only complied with all the client's requirements and specification as defined in the contract documentation and drawings, he/ she also added value by either reducing cost and not delaying schedule commitment whilst achieving quality requirements	SP complied with the client's requirements and met all specifications as indicated in the contract documents	SP failed to comply with at least 50% of quality requirements as set out in the contract documents and or drawings	SP did not deliver to the client's requirements. No attempt was made to meet the quality requirements.
Cost	TARGET	ACTUAL		SP managed to expedite expenditure and is 20% ahead of projected cashflow and not compromising quality criteria.	SP managed to expedite expenditure and is 10% ahead if projected cashflow whilst still maintaining client and project requirements.	SP expenditure is as per the agreed cashflow.	SP delayed execution of the contract and has spent 15% below the target cash flow	SP delayed execution of the contract and has spent 25% below the target cash flow

Schedule Adherence	<u>TARGET</u>	<u>ACTUAL</u>		SP delivered the project or work packages ahead of the scheduled delivery date by more than 15% of the planned project duration, delivering to the full scope of the project.	SP managed to complete the project or work packages ahead of the planned completion date by reducing project duration with 10% of planned time.	SP achieved original schedule date.	SP underestimated project activities and ultimately project duration resulting in a project delay by more than 15% of the project duration.	SP poor management of the project resulted in the project being delayed by a period longer than 20% of the project duration initially agreed at the conclusion of the contract.
SME Participation	<u>TARGET</u>	<u>ACTUAL</u>		SP made extensive use of SME in the course of the project exceeding project requirements achieving 40% SME participation.	SP made a significant contribution to the development of SMME's during the duration of the project with 38% SME participation.	SP achieved the 35% SME participation requirements as defined in the contract documentation.	SP who does not meet initial SMME contribution requirements as set out in the contract documentation achieved 30% SME participation.	Achieved 25% SME participation.
No of Jobs created	<u>TARGET</u>	<u>ACTUAL</u>		SP created more jobs than contracted by 15% or more	SP created more jobs than initially contracted by 10%.	SP created the number of jobs as defined in the contract document.	SP who does not meet the requirement for job in the contract, achieved 10% less.	Achieved 15% less.
No of Interns	<u>TARGET</u>	<u>ACTUAL</u>		SP employed an increased number of interns above what was agreed initially by 15% or greater	SP employed an increased number of interns above what was agreed initially by 10%	SP employed the agreed number of interns.	Achieved 10% less.	Achieved 15% less.
S.H.E				SP at all times during the project displayed a pro-active approach taking a leading role with regard to S.H.E requirements and maintains a one step ahead approach to ensure the project is managed in a manner that does not expose the project and client and cause delays.	SP not only met all the S.H.E requirements in the contract documents but ensured that any gaps encountered in S.H.E requirements were closed to reduce any negative exposure to the client.	SP was in full compliance with all the S.H.E requirements of the project.	SP sometimes complies with S.H.E requirements as defined in the contract documents and statutory and regulatory requirements. Exposing the project to undue risk and negatively affecting the project quality, cost and schedule.	SP scarcely achieve set S.H.E requirements.
FINAL SCORE**				SCORE > 35 EXCELLENT	SCORE > 28 VERY GOOD	SCORE > 20 GOOD	SCORE < 20 POOR	

**These areas could be weighted, and a final score achieved based on CDC priorities

SP that obtains a score of less than 18 is regarded as a poor performer therefore not recommended for further appointment.

Project Manager's Comments: <i>(PM to define challenges experienced or positive comments)</i>	
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Signatures:

Project Manager:

Date: