



REQUEST FOR BID

FOR

APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS

7GB OR HIGHER

EMIS NO: 200401041

DISTRICT: OR TAMBO INLAND

BID NO: SCMU6-25/26-0002

Consisting of:

Single Volume: The Request for Bid (Returnable) - This document

BIDDER:

CRS NO:

Compiled for:

SUPPLY CHAIN MANAGEMENT
Eastern Cape Department of Education
Steve Tshwete Complex, Zone 6
ZWELITSHA
5608

Website: www.edu.ecprov.gov.za

Compiled by:

JULY 2025
PNO: P9009886

REQUEST FOR BID

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REQUEST FOR BID

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Part 1: BID PROCEDURE

**T1.1: Request for Bid Notice and Invitation to Bid
(SBD1)**



REQUEST FOR BID NOTICE

DEPARTMENT OF EDUCATION **EASTERN CAPE PROVINCE**

The Eastern Cape Department of Education (ECDOE) invites contractors to tender for the **APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS**

BID NO: SCMU6-25/26-0002
[CIDB Grade: 7GB or Higher]

Project Leader (DoE)

Mr Q Msiwa
Tel: 040 608 4707
Email: qiqile.msiwa@ecdoe.gov.za

Bid documents are downloadable free of charge from the Eastern Cape Department of Education website (www.ecdoe.gov.za/tenders) or from National Treasury's tender portal (<http://www.etender.gov.za/content/advertised-tenders>). Bid documents will be available on **Friday, 04 July 2025 at 09h00am**. No bid documents will be available at departmental offices.

Mandatory Briefing Session will be held at **TANDANANI SSS** on **Tuesday, 15 July 2025** from **10h00am to 11h30am**. Co-ordinates -31.292649739269738; 28.921958875178316, Lotana Village, Tandanani.

Queries relating to the issue of these documents may be addressed in writing to: **Ms Asanda Pokwana** – Email Asanda.pokwana@ecdoe.gov.za **Technical enquiries:** may be addressed in writing to **Mr. Q. Msiwa**– email: Qiqile.Msiwa@ecdpw.gov.za

Completed Request for Bid documents in a sealed envelope endorsed with the project name, request for Bid number and description must be deposited in the Tender Box, **Department of Education, Steve Tshwete Complex, Zone 6, Zwelitsha**, not later than **11h00am** on **Monday, 28 July 2025**

Telegraphic, telexed or faxed tenders will not be considered. The ECDoE does not bind itself to accepting the lowest tenderer. Tender price offered should not pose a commercial risk to the completion of the project.

Procurement Contact Official

Ms A Pokwana
Tel: 040 608 4326
Asanda.pokwana@ecdoe.gov.za

Infrastructure Contact Official

Mr Q Msiwa
Tel: 040 608 4707
qiqile.msiwa@ecdoe.gov.za

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE DEPARTMENT OF EDUCATION					
BID NUMBER:	SCMU6-25/26-0002	CLOSING DATE:	28 July 2025	CLOSING TIME:	11h00am
DESCRIPTION	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
Department of Education					
Steve Tshwete Education Complex					
Zone 6					
Zwelitsha					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Ms Asanda Pokwana		CONTACT PERSON	Mr. Qiqile Msiwa	
TELEPHONE NUMBER	040 608 4326		TELEPHONE NUMBER	040 608 4704	
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS	Asanda.pokwana@ecdoe.gov.za		E-MAIL ADDRESS	Qiqile.Msiwa@ecdoe.gov.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?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?		☐ Yes ☐ No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? ☐ YES ☐ NO DOES THE ENTITY HAVE A BRANCH IN THE RSA? ☐ YES ☐ NO DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? ☐ YES ☐ NO DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? ☐ YES ☐ NO IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? ☐ YES ☐ NO IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 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:

T1.2 Request for Bid Data

T1.2: REQUEST FOR BID DATA

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS		
Bid No:	SCMU6-25/26-0002		
Advertising date:	04 July 2025	Closing date:	28 July 2025
Closing time:	11h00	Validity period	90 Days

Clause number																											
	The conditions of Request for Bid applicable to this contract are the Standard Conditions of Tender as contained in Annexure C of the CIDB Standard for Uniformity in Construction Procurement (August 2019) as published in Government Gazette No. 42622, Department of Public Works Notice 423. The Standard Conditions of Bid make several references to the Bid Data for details that apply specifically to this Bid. The Bid Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of Bid. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Bid to which it mainly applies.																										
C.1.2	The employer is the Eastern Cape Province Department of Education																										
C.1.3.1	The Request for Bid documents issued by the employer comprise: THE REQUEST FOR BID (SINGLE VOLUME) Part 1: Bidding Procedure T1.1 Request for Bid Notice and Invitation to Bid (SBD1) T1.2 Request for Bid Data Part 2: Agreement and Contract Data C1.1 Form of Offer and Acceptance C1.1a Final Summary of Bills of Quantities (C2.2) C1.1b Standard Conditions of Tender C1.1c General Conditions of Contract C1.2 Contract Data C1.3 Form of Guarantee Part 3: Returnable Schedules/Documents T2.1 List of Returnable Documents T2.2 Returnable Documents: <table><tr><td>SBD4</td><td>Declaration of interest</td><td>Mandatory Requirement</td></tr><tr><td>SBD6.1</td><td>Preference points claim form in terms of Preferential Procurement Regulations 2022</td><td>Non-Elimination, to be submitted for the purposes of claiming points for Specific Goals.</td></tr><tr><td>T2.2.1</td><td>Certificate of authority for signatory</td><td>Mandatory Requirement</td></tr><tr><td>T2.2.2</td><td>Certificate of authority for joint ventures (if applicable)</td><td>Mandatory Requirement</td></tr><tr><td>T2.2.5</td><td>Record of addenda to Request for Bid documents</td><td>Additional documents</td></tr><tr><td>T2.2.6</td><td>Capacity of Bidder</td><td>Mandatory Requirement</td></tr><tr><td>T2.2.7</td><td>Relevant project experience - completed projects</td><td>Mandatory Requirement</td></tr><tr><td>T2.2.8</td><td>Relevant project experience - current projects</td><td>Mandatory Requirement</td></tr></table>			SBD4	Declaration of interest	Mandatory Requirement	SBD6.1	Preference points claim form in terms of Preferential Procurement Regulations 2022	Non-Elimination, to be submitted for the purposes of claiming points for Specific Goals.	T2.2.1	Certificate of authority for signatory	Mandatory Requirement	T2.2.2	Certificate of authority for joint ventures (if applicable)	Mandatory Requirement	T2.2.5	Record of addenda to Request for Bid documents	Additional documents	T2.2.6	Capacity of Bidder	Mandatory Requirement	T2.2.7	Relevant project experience - completed projects	Mandatory Requirement	T2.2.8	Relevant project experience - current projects	Mandatory Requirement
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	T2.2.9	Schedule of plant & equipment	Additional documents
	T2.2.10	Compulsory enterprise questionnaire	Mandatory Requirement
	T2.2.11	CIDB grading certificate	Mandatory Requirement
	T2.2.12	Other certificates (certified copies to be inserted by Bidder), etc	Mandatory Requirement
		Valid Letter of Good Standing from Compensation Fund or a licensed insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act 1993	Mandatory Requirement
	T2.2.13	Completed project reference forms	Mandatory Requirement
	PRICING SCHEDULE	Priced BoQ	Mandatory Requirement
THE CONTRACT			
Part 4: Scope of Work			
C3.1 Scope of work			
C3.2 Health and Safety Specification			
C3.4 Contractors Reports			
Part 5: Pricing data			
C2.1 Pricing instructions			
C2.2 Preliminaries / Bill of Quantities / Final Summary			
Part 6: Site information			
C4 Site information			
C5 Drawings			
C.1.4	The employer's agent is:		
	Name:	Q Msiwa (Eastern Cape Province Department of Education)	
	Capacity:	Project Leader	
	Address:	Steve Tshwete Building	
	Tel:	(040) 608 4707	
	Fax:		
	E-mail:	qiqile.msiwa@ecdoe.gov.za	
C.2.1	Only those Bidders who satisfy the following eligibility criteria should submit Request for Bids:		
	1. Submit an offer only if the Bidder satisfies the criteria stated in the Request for Bid data and the Bidder, or any of his principals, is not under any restriction to do business with the employer.		
	2. The Bidder is registered with the CIDB, in a 7GB or Higher class of construction work.		
	3. The Bidder is registered on the National Treasury Central Supplier Data Base (https://secure.csd.gov.za)		
	4. The Bidder accepts that documents that have correction fluid on them will be deemed non-responsive and the documents must remain intact.		
	5. Bidders adhere to the pre-qualification criteria stated in the Request for Bid document, if any. Joint ventures are eligible to submit Bids provided that:		
	6. Every member of the joint venture must be registered with the CIDB in the General Building (GB) class of work.		
	7. The combined contractor grading designation of the members calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum bid for a 7GB or Higher class of construction work.		
	8. The members/parties have signed a joint venture agreement.		

C.2.7	The arrangements for the compulsory clarification meeting, if any, are as stated in the Request for Bid Notice (T1.1). A Request for Bid will not be considered if the Bidder or their representative has not attended the compulsory briefing session. Bidders must sign the attendance register in the name of the bidding entity. Addenda will be issued to and Request for Bids will be received only from those bidding entities appearing on the attendance register. Request for Bid documents will not be issued at the clarification meeting.
C.2.8	Request clarification at least 5 working days before the closing time.
C2.11	All documents must be completed and signed in black permanent ink. No correction fluid must be used in the document. Incomplete bid responses may be disqualified or evaluated solely on the information contained in the bid. The ECDoE may disregard any content in the request for bid that is illegible and will be under no obligation whatsoever to seek clarification from the bidder.
C.2.12	If a Bidder wishes to submit an alternative Request for Bid offer, the only criteria permitted for such alternative Request for Bid offer is that it demonstrably satisfies the employer's standards and requirements, the details of which may be obtained from the Employer's Agent. Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative Request for Bid offer to enable the employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal. Acceptance of an alternative Request for Bid offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the Bidder, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the employer's standards and requirements. The modified Pricing Data must include an amount equal to 5% of the amount bid for the alternative offer to cover the employer's costs of confirming the acceptability of the detailed design before it is constructed. Alternative Bid offer permitted: Yes ☐ No ☒
C.2.13 C.2.15	The employer's address for delivery of Request for Bid offers and identification details to be shown on each Request for Bid offer package are as per Request for Bid Notice (T1.1) and Invitation to Bid (SBD 1)
C.2.13.5	Request for Bid offers shall be submitted as originals only.
C.2.13.6	A two-envelope system is not required.
C.2.13.9	Telephonic, telegraphic, telex, facsimile, emailed, electronic copy or late offers will not be accepted.
C.2.15	The closing time for submission of Request for Bid offers is as per the Request for Bid Notice (T1.1) and the Invitation to Bid (SBD 1).

C.2.16	The Request for Bid offer validity period is as per the Request for Bid Notice (T1.1) and the Invitation to Bid (SBD 1).
C.2.17	Provide clarification of the Request for Bid offer in response to do so from the employer during the evaluation of Request for Bid offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of Bidders or substance of the Request for Bid offer is sought, offered, or permitted.
C.2.22	Not a requirement
C.2.23	Refer to Parts 1, 2 & 3 for certificates and other documents to be submitted with the Request for Bid.
C.3.4	The time and location for opening of the Request for Bid offers are as per the Request for Bid Notice (T1.1).
C.3.11	Financial Offer and Preference will be evaluated as follows: The 90/10 preference point system will be applicable with 90 points allocated to Price and 10 points towards Specific Goals status level of contribution. The score for price is calculated using the following formula: $P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$ Where: P_s = Points scored for price of bid under consideration; P_t = Price of bid under consideration and P_{min} = Price of lowest acceptable bid. A trust, consortium or joint venture will qualify for points for their Specific Goals.
C.3.13	Request for Bid offers will only be accepted if: 1. The Bidder or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; 2. The Bidder has not: a. Abused the Employer's Supply Chain Management System; or b. Failed to perform on any previous contract and has been given a written notice to this effect; 3. The Bidder has completed the compulsory declarations and there are no conflicts of interest, which may impact on the Bidder's ability to perform the contract in the best interests of the employer or potentially compromise the Request for Bid process; 4. The Bidder is registered with the Construction Industry Development Board in an appropriate contractor grading designation; The Bidder is in good standing with a Compensation Fund.
C.3.17	The number of paper copies of the signed contract to be provided by the employer is 1 (one) copy of the signed contract to the successful Bidder.

T1.3 BID EVALUATION CRITERIA

T1.3: BID EVALUATION CRITERIA

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS		
Bid No:	SCMU6-25/26-0002		
Advertising date:	04 July 2025	Closing date:	28 July 2025
Closing time:	11h00	Validity period	90 Days

	BID EVALUATION CRITERIA									
	This bid will be evaluated in Two (2) phases as follows: Phase One: Compliance, and responsiveness to the bid rules and conditions, thereafter they will be evaluated on PPPFA. Phase Two: Bidders passing the stage above will thereafter be evaluated on PPPFA. <table><tr><td>Maximum points on price</td><td>-</td><td>90 points</td></tr><tr><td>Maximum points for Specific goals</td><td>-</td><td>10 points</td></tr><tr><td>Maximum points</td><td>-</td><td>100 points</td></tr></table> Phase 1: Compliance, and responsiveness to the bid rules and conditions Bidders must comply with the following Bid conditions in order to proceed to Phase Two Of Evaluation:– 1. Priced Bills of Quantities must be submitted. 2. Bidders are required to have a CIDB contractor Grading designation 7GB or Higher. Proof of Cidb Registration or CRS number must be submitted with the bid. 3. Bids which are late will not be accepted. 4. A valid Letter of Good Standing from the Compensation Fund or licensed insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act 1993 must be submitted with Bid 5. Failure to complete <u>all</u> supplementary information and the RETURNABLE SCHEDULES may result in the request for Bid being eliminated. 6. Tender Forms (Form C1.1: Form of offer and acceptance) that are incomplete or incorrectly completed will result in elimination of that tender Failure to submit the following completed and signed compulsory documents will result in elimination of the bid:	Maximum points on price	-	90 points	Maximum points for Specific goals	-	10 points	Maximum points	-	100 points
Maximum points on price	-	90 points								
Maximum points for Specific goals	-	10 points								
Maximum points	-	100 points								

FORM C1.1	Tender Forms (Form C1.1: Form of offer and acceptance) that are incomplete or incorrectly completed will result in elimination of the tender	Mandatory Requirement									
SBD4	Declaration of interest	Mandatory Requirement									
SBD6.1	Preference points claim form in terms of Preferential Procurement Regulations 2022	Non-Elimination, to be submitted for the purposes of claiming points for Specific Goals.									
T2.2.1	Certificate of authority for signatory	Mandatory Requirement									
T2.2.2	Certificate of authority for joint ventures (if applicable)	Mandatory Requirement									
T2.2.6	Capacity of Bidder	Mandatory Requirement									
T2.2.7	Relevant project experience – Completed projects	Mandatory Requirement									
T2.2.8	Relevant project experience - current projects	Mandatory Requirement									
T2.2.10	Compulsory enterprise questionnaire	Mandatory Requirement									
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T2.2.12	Other certificates (certified copies to be inserted by Bidder), etc	Mandatory Requirement									
	A valid Letter of Good Standing from Compensation Fund or licensed insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act 1993	Mandatory Requirement									
T2.2.13	Completed project reference forms	Mandatory Requirement									
	Priced BoQ	Mandatory Requirement									
Phase Two: Bidders passing the stage above will thereafter be evaluated on PPPFA. PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT (PPPFA) POINTS WILL BE AWARDED AS FOLLOWS: <table> <tr> <td>Maximum points on price</td> <td>-</td> <td>90 points</td> </tr> <tr> <td>Maximum points for Specific goals</td> <td>-</td> <td>10 points</td> </tr> <tr> <td>Maximum points</td> <td>-</td> <td>100 points</td> </tr> </table>			Maximum points on price	-	90 points	Maximum points for Specific goals	-	10 points	Maximum points	-	100 points
Maximum points on price	-	90 points									
Maximum points for Specific goals	-	10 points									
Maximum points	-	100 points									

Part 2: AGREEMENT AND CONTRACT DATA

C1.1 Form of Offer and Acceptance

C1.1: FORM OF OFFER AND ACCEPTANCE

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

OFFER

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the:
APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS

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

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

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

.....

.....Rand (in words);

R(in figures)

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

Signature(s)

Name(s)

Capacity

for the Bidder

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

Name and
signature of
witness Date

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 agreement)

Part C2 Pricing data

Part C3 Scope of work.

Part C4 Site information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Request for Bid data and any addenda thereto as 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.

The Bidder shall within 2 (two) weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's agent (whose details are given in the contract data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the Bidder receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the Bidder (now contractor) within 5 (five) working days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature(s)

Name(s)

Capacity

**for the
Employer**

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

Name and
signature of
witness Date

Schedule of Deviations

Notes:

1. *The extent of deviations from the Request for Bid documents issued by the employer before the Request for Bid closing date is limited to those permitted in terms of the conditions of Request for Bid.*
2. *A Bidder's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.*
3. *Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the Request for Bid documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.*
4. *Any change or addition to the Request for Bid documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.*

1. Subject _____

Details _____

2. Subject _____

Details _____

3. Subject _____

Details _____

4. Subject _____

Details _____

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 Request for Bid data and addenda thereto as listed in the Request for Bid 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.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the Request for Bid/ Bid 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.

C1.1a Final Summary of Bills of Quantities

Section No.	<u>FINAL SUMMARY</u>	Page		
1	PRELIMINARIES	14		
2	REPAIRS AND RENOVATIONS	2-29		
3	BUILDING WORKS	3-106		
4	ELECTRICAL INSTALLATION	4-2		
5	MECHANICAL INSTALLATION	5-2		
6	EXTERNAL WORKS	6-36		
7	PROVISIONAL SUMS	7-4		
	ADD: CONTINGENCIES			
	Allow the Amount of R2 500 000.00 (Two Millionand Five Hundred Thousand Rands) for contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement.		2 500 000	00
	ADD: CIDB B.U.I.L.D PROGRAMME			
	Allow 0,2% of sub-total amount for tender value of the project for CIDB best practice project assessment scheme.			
	SubTotal excluding Value Added Tax			
	ADD VAT @ 15%:			
	Carried to Tender		R	

C1.1b Standard Conditions of Tender

CIDB Standard Conditions of Tender (August 2019 Edition)

(As contained in Annexure C of the CIDB Standard for Uniformity in Engineering and Construction Works Contracts in Board Notice 423 of 2019 in Government Gazette No 42622 of 8 August 2019)

C.1 General

C.1.1 Actions

C.1.1.1 The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in C.2 and C.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

C.1.1.2 The employer and the tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Bidders shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

Note: 1) A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.

2) Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.

C.1.1.3 The employer shall not seek and a tenderer shall not submit a tender without having a firm intention and the capacity to proceed with the contract.

C.1.2 Tender Documents

The documents issued by the employer for the purpose of a tender offer are listed in the tender data.

C.1.3 Interpretation

C.1.3.1 The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

C.1.3.2 These conditions of tender, the tender data and tender schedules which are required for tender evaluation purposes, shall form part of any contract arising from the invitation to tender.

C.1.3.3 For the purposes of these conditions of tender, the following definitions apply:

a) **conflict of interest** means any situation in which:

- i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfill his or her duties impartially;
- ii) an individual or tenderer is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
- iii) incompatibility or contradictory interests exist between an employee and the tenderer who employs that employee.

b) **comparative offer** means the price after the factors of a non-firm price and all unconditional discounts it can be utilised to have been taken into consideration;

c) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process;

d) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels;

C.1.4 Communication and employer's agent

Each communication between the employer and a tenderer shall be to or from the employer's agent only, and in a form that can be readily read, copied and recorded. Communications shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the employer's agent are stated in the tender data.

C.1.5 Cancellation and Re-Invitation of Tenders

C.1.5.1 An employer may, prior to the award of the tender, cancel a tender if:

- a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation;
- b) funds are no longer available to cover the total envisaged expenditure; or
- c) no acceptable tenders are received.
- d) there is a material irregularity in the tender process.

C.1.5.2 The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised

C.1.5.3 An employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

C.1.6 Procurement procedures

C.1.6.1 General

Unless otherwise stated in the tender data, a contract will, subject to C.3.13, be concluded with the tenderer who in terms of C.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

C.1.6.2 Competitive negotiation procedure

C.1.6.2.1 Where the tender data require that the competitive negotiation procedure is to be followed, Bidders shall submit tender offers in response to the proposed contract in the first round of submissions.

Notwithstanding the requirements of C.3.4, the employer shall announce only the names of the Bidders who make a submission. The requirements of C.8 relating to the material deviations or qualifications which affect the competitive position of Bidders shall not apply.

C.1.6.2.2 All responsive Bidders or at least a minimum of not less than three responsive Bidders that are highest ranked in terms of the evaluation criteria stated in the tender data shall be invited to enter into competitive negotiations based on the principle of equal treatment, keeping confidential the proposed solutions and associated information. Notwithstanding the provisions of C.2.17, the employer may request that tenders be clarified, specified and fine-tuned in order to improve a tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.

C.1.6.2.3 At the conclusion of each round of negotiations, Bidders shall be invited by the employer to revise their tender offer based on the same evaluation criteria, with or without adjusted weightings. Bidders shall be advised when they are to submit their best and final offer.

C.1.6.2.4 The contract shall be awarded in accordance with the provisions of C.3.11 and C.3.13 after Bidders have been requested to submit their best and final offer.

C.1.6.3 Proposal procedure using the two stage-system

C.1.6.3.1 Option 1

Bidders shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The employer shall evaluate each responsive submission in terms of the method of evaluation stated in the tender data, and in the second stage negotiate a contract with the tenderer scoring the highest number of evaluation points and award the contract in terms of these

conditions of tender.

C.1.6.3.2 Option 2

C.1.6.3.2.1 Bidders shall submit in the first stage only technical proposals. The employer shall invite all responsive Bidders to submit tender offers in the second stage, following the issuing of procurement documents.

C.1.6.3.2.2 The employer shall evaluate tenders received during the second stage in terms of the method of evaluation stated in the tender data, and award the contract in terms of these conditions of tender.

C.2 Tenderer's obligations

C.2.1 Eligibility

C.2.1.1 Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer.

C.2.1.2 Notify the employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.

C.2.2 Cost of tendering

C.2.2.1 Accept that, unless otherwise stated in the tender data, the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

C.2.2.2 The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.

C.2.3 Check documents

Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.

C.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.

C.2.5 Reference documents

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

C.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.

C.2.7 Clarification meeting

Attend, where required, a clarification meeting at which Bidders may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the tender data.

C.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the employer at least five (5) working days before the closing time stated in the tender data.

C.2.9 Insurance

Be aware that the extent of insurance to be provided by the employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.

C.2.10 Pricing the tender offer

C.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable fourteen (14) days before the closing time stated in the tender data.

C.2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

C.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.

C.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

C.2.11 Alterations to documents

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

C.2.12 Alternative tender offers

C.2.12.1 Unless otherwise stated in the tender data, submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.

C.2.12.2 Accept that an alternative tender offer must be based only on the criteria stated in the tender data or criteria otherwise acceptable to the employer.

C.2.12.3 An alternative tender offer must only be considered if the main tender offer is the winning tender.

C.2.13 Submitting a tender offer

C.2.13.1 Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

C.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

C.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

C.2.13.4 Sign the original and all copies of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for Bidders proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

- C.2.13.5 Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.
- C.2.13.6 Where a two-envelope system is required in terms of the tender data, place and seal the returnable documents listed in the tender data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.
- C.2.13.7 Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the tender data.
- C.2.13.8 Accept that the employer will not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.
- C.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.

C.2.14 Information and data to be completed in all respects

Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.

C.2.15 Closing time

- C.2.15.1 Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.
- C.2.15.2 Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline.

C.2.16 Tender offer validity

- C.2.16.1 Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.
- C.2.16.2 If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.
- C.2.16.3 Accept that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).
- C.2.16.4 Where a tender submission is to be substituted, a tenderer must submit a substitute tender in accordance with the requirements of C.2.13 with the packages clearly marked as "SUBSTITUTE".

C.2.17 Clarification of tender offer after submission

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of Bidders or substance of the tender offer is sought, offered, or permitted.

Note: Sub-clause C.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.

C.2.18 Provide other material

C.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.

C.2.18.2 Dispose of samples of materials provided for evaluation by the employer, where required.

C.2.19 Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.

C.2.20 Submit securities, bonds and policies

If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

C.2.21 Check final draft

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

C.2.22 Return of other tender documents

If so instructed by the employer, return all retained tender documents within twenty-eight (28) days after the expiry of the validity period stated in the tender data.

C.2.23 Certificates

Include in the tender submission or provide the employer with any certificates as stated in the tender data.

C.3 The employer's undertakings

C.3.1 Respond to requests from the tenderer

C.3.1.1 Unless otherwise stated in the tender Data, respond to a request for clarification received up to five (5) working days before the tender closing time stated in the Tender Data and notify all Bidders who collected tender documents.

C.3.1.2 Consider any request to make a material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous procurement process and deny any such request if as a consequence:

- a) an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements;
- b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
- c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

C.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three (3) working days before the

tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all Bidders who collected tender documents.

C.3.3 Return late tender offers

Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.

C.3.4 Opening of tender submissions

C.3.4.1 Unless the two-envelope system is to be followed, open valid tender submissions in the presence of Bidders' agents who choose to attend at the time and place stated in the tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.

C.3.4.2 Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the tender data, the name of each tenderer whose tender offer is opened and, where applicable, the total of his prices, number of points claimed for its Specific Goals status level and time for completion for the main tender offer only.

C.3.4.3 Make available the record outlined in C.3.4.2 to all interested persons upon request.

C.3.5 Two-envelope system

C.3.5.1 Where stated in the tender data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of Bidders' agents who choose to attend at the time and place stated in the tender data and announce the name of each tenderer whose technical proposal is opened.

C.3.5.2 Evaluate functionality of the technical proposals offered by Bidders, then advise Bidders who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of Bidders, who score in the functionality evaluation more than the minimum number of points for functionality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any points claimed on Specific Goals status level. Return unopened financial proposals to Bidders whose technical proposals failed to achieve the minimum number of points for functionality.

C.3.6 Non-disclosure

Not disclose to Bidders, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

C.3.7 Grounds for rejection and disqualification

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

C.3.8 Test for responsiveness

C.3.8.1 Determine, after opening and before detailed evaluation, whether each tender offer properly received:

- a) complies with the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

C.3.8.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

- a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,

- b) significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other Bidders presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

C.3.9 Arithmetical errors, omissions and discrepancies

- C.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.
- C.3.9.2 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for:
- a) the gross misplacement of the decimal point in any unit rate;
 - b) omissions made in completing the pricing schedule or bills of quantities; or
 - c) arithmetic errors in:
 - (i) line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or
 - (ii) the summation of the prices.
- C.3.9.3 Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.
- C.3.9.4 Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:
- a) If bills of quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.
 - b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

C.3.10 Clarification of a tender offer

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

C.3.11 Evaluation of tender offers

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the Tender Data associated with a specific project.

Conditions of tender are by definition the document that establishes a tenderer's obligations in submitting a tender and the employer's undertakings in soliciting and evaluating tender offers. Such conditions establish the rules from the time a tender is advertised to the time that a contract is awarded and require employers to conduct the process of offer and acceptance in terms of a set of standard procedures.

The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:	
Requirement	Qualitative interpretation of goal
Fair	The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information.
Equitable	Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.
Transparent	The only grounds for not awarding a contract to a tenderer who satisfies all requirements are restrictions from doing business with the employer, lack of capability or capacity, legal impediments and conflicts of interest.
Competitive	The system provides for appropriate levels of competition to ensure cost effective and best value

	outcomes.
Cost effective	The processes, procedures and methods are standardized with sufficient flexibility to attain best value outcomes in respect of quality, timing and price, and least resources to effectively manage and control procurement processes.

The activities associated with evaluating tender offers are as follows:

- a) Open and record tender offers received
- b) Determine whether or not tender offers are complete
- c) Determine whether or not tender offers are responsive
- d) Evaluate tender offers
- e) Determine if there are any grounds for disqualification
- f) Determine acceptability of preferred tenderer
- g) Prepare a tender evaluation report
- h) Confirm the recommendation contained in the tender evaluation report

C.3.11.1 General

The employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive tender offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender data.

C.3.12 Insurance provided by the employer

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and / or certificates of insurance which the conditions of contract identified in the contract data, require the employer to provide.

C.3.13 Acceptance of tender offer

Accept the tender offer; if in the opinion of the employer, it does not present any risk and only if the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement;
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract;
- c) has the legal capacity to enter into the contract;
- d) is not; insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act No. 2008, bankrupt or being wound up, has his/her affairs administered by a court or a judicial officer, has suspended his/her business activities or is subject to legal proceedings in respect of any of the foregoing;
- e) complies with the legal requirements, if any, stated in the tender data; and
- f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

C.3.14 Prepare contract documents

C.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents and
- c) other revisions agreed between the employer and the successful tenderer.

C.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

C.3.15 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

C.3.16 Registration of the award

An employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the employer, register and publish the award on the cidb Register of Projects.

C.3.17 Provide copies of the contracts

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

C.3.18 Provide written reasons for actions taken

Provide upon request written reasons to Bidders for any action that is taken in applying these conditions of tender but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of Bidders or might prejudice fair competition between Bidders.

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C1.2 Contract Data

C1.2 : CONTRACT DATA : JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

	The Conditions of Contract are clauses 1 to 42 of the JBCC series 2000 Principal Building Agreement (Edition 4.1 of March 2005) prepared by the Joint Building Contracts Committee. Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors, Master Builders Association, South African Association of Consulting Engineers, South African Institute of Architects, Association of Construction Project Managers, Building Industries Federation South Africa, South African Property Owners Association or Specialist Engineering Contractors Committee.

	CONTRACT VARIABLES THE SCHEDULE The schedule contains all the variables referred to in this document and is divided into part 1: contract data completed by the employer and part 2: contract data completed by the contractor. Part 1 must be completed in full and included in the Bidder documents. Both part 1 and part 2 form part of this agreement. Spaces requiring information must be filled in, shown as “not applicable” or deleted but not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets.

42.0	PART 1: CONTRACT DATA PROVIDED BY THE EMPLOYER

42.1	CONTRACTING AND OTHER PARTIES
42.1.1	Employer: Eastern Cape Province Department of Education Postal address: Private Bag X0032 BHISHO 5605 Tel: 040 608 4335 Fax: 040 – 602 7272 Physical address: Steve Tshwete Building Zone 6 Zwelitsha
[1.2]	

42.1.2 [1.1, 5.1]	Principal Agent: XXX Tel: Fax:
42.1.3 [1.1, 5.2]	Agent (1) - XXX Agent's service: Postal address: Tel: Fax:
42.1.4 [1.1, 5.2]	Agent (2) - XXX Agent's service: Postal address: Tel: Fax:
42.1.5 [1.1, 5.2]	Agent (3) - XXX Agent's service: Postal address: Tel: Fax:
42.1.6 [1.1, 5.2]	Agent (4) - XXX Agent's service: Postal address: Tel: Fax:
42.2	CONTRACT DETAILS
42.2.1 [1.1]	Works description: Refer to document C3.1 – Scope of Work.
42.2.2 [1.1]	Site description: Refer to document C4 – Site Information.
42.2.4 [41.0]	Specific options that are applicable to a State organ only Where so :
[31.1 #] [31.11.2 #] [31.12.2#] [11.2.#]	1) Interest rate legislation: (a) in respect of interest owed by the employer , the interest 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), will apply; and (b) in respect of interest owed to the employer , the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply

[31.4.2 #] [40.2.2.#] [26.1.2 #] [31.6.5#]	2) Lateral support insurance to be effected by the contractor :	Yes ☐ No ☒
	3) Payment will be made for materials and goods on site: Under no circumstance will deposits due by the contractor to any supplier or subcontractor for materials or equipment be paid prior to the delivery to site thereof, after which it will be regarded as materials and goods on site.	Yes ☒ No ☐
	4) Dispute resolution by adjudication:	Yes ☒ No ☐
	5) Extended defects liability period is applicable to the following elements: - all civil works such as roads, parking areas, stormwater & soil drainage - all work done under electrical subcontracts - all work done under mechanical subcontracts	
	Covered by an advance payment guarantee for such other security as maybe accepted by the Employer where stored off the site.	
42.2.6 [15.3]	Period for the commencement of the works after the contractor takes possession of the site : Five (5) working days.	
42.2.7 [24.3.1] [30.1]	For the works as a whole: The date for practical completion shall be TWENTY (20) Months (including statutory holidays, but excluding the annual builders' shutdown period) from the date that possession of the site is given to the contractor and the penalty per calendar day shall be 1.5c per R100 of the contract value .	
42.2.9 [1.2]	The law applicable to this agreement shall be that of the: Republic of South Africa	
42.3	INSURANCES	
42.3.1 [10.1 #, 10.2 #, 12.1 #]	Contract works insurance to be effected by the contractor ☒ To the minimum value of the contract sum plus 20% With a deductible not exceeding 5% of each and every claim	
42.3.2 [10.1 #, 10.2 #, 12.1 #]	Supplementary insurance is required: Yes To the minimum value of the contract sum plus 20 %	
42.3.3 [11.1 #, 12.1 #]	Public liability insurance to be effected by the contractor ☒ For the sum of R 10 million With a deductible not exceeding 5% of each and every claim	
42.3.4 [11.2 #, 12.1 #]	Support insurance to be effected by the contractor : Not Applicable	
42.4	DOCUMENTS	
42.4.2 [3.7]	Three (3) copies of the construction documents will be supplied to the contractor free of charge	
42.4.3	Bills of quantities / ~~Lump sum document~~ schedule of rates drawn up in accordance with: Standard System of Measuring Building Work (seventh edition as amended)	

42.4.4 [15.1.1]	The priced bills of quantities shall be submitted with the Request for Bid submission : Yes ☒ No ☐
42.4.5 [3.4]	JBCC Engineering General Conditions are to be included in the contract documents : No

42.4.6 [31.5.3] [32.13]	The contract value is to be adjusted using CPAP indices: Yes ☒ No ☐ Where CPAP is applicable, the contract sum will be adjusted in accordance with the JBCC Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Indices Application Manual as prepared by the JBCC Series 2000, code 2118, dated May 2005 and any amendments thereto: 1) Glass etc. measured in specialist section Metalwork, will be adjusted in terms of the index for that work group unless specifically stated otherwise in the bills of quantities 2) All electrical installations in buildings and power distribution systems shall be adjusted in terms of the index for Work Group 160 Electrical Installation. In case of uninterruptible power supplies, elevators, escalators and hoists, generating sets, motor-alternator sets and intercommunication systems shall be in accordance with Work Group 170 3) With reference to Work Group 190 a proportion of the value related preliminaries pro rata to the amount of work excluded from adjustment, shall be excluded from Contract Price Adjustment Provisions, if Option A has been selected for the adjustment of preliminaries 4) Further to clause 3.4.4 of the CPAP Indices Application Manual, the listing of additional items for exclusion by Bidders, will not be permitted 5) Where V results in a negative amount after application of the formula in clause 8.3 of the CPAP Indices Application Manual the factor of 0,55 shall be substituted by 1,45 Alternative Indices: Not Applicable
42.4.7 [3.10]	Details of changes made to the provisions of JBCC standard documentation Clause 1.1 COMMENCEMENT DATE – means the date that the agreement, made in terms of the Offer and Acceptance, comes into effect. CONSTRUCTION GUARANTEE – means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule. CONSTRUCTION PERIOD – means the period commencing on the date that possession of the site is given to the contractor and ending on the date of practical completion. CORRUPT PRACTICE – means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. FRAUDULENT PRACTICE – means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any Bidder, and includes collusive practice among Bidders (prior to and after the Bidder submission) designed to establish Bidder prices at artificial non-competitive levels and to deprive the Bidder of the benefits of free and open competition. INTEREST – the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular: (a) in respect of interest owed by the employer, the interest 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), will apply; and

(b) in respect of interest owed to the **employer**, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply

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

1.6 Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice shall be presumed to have been given when:

1.6.4 No clause

3.2.1 A **construction guarantee** in terms of 14.0, where so elected in his Bid.

3.7 Add at the end thereof:

The **contractor** shall supply and keep a copy of the **JBCC** Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the **site**, to which the **employer**, **principal agent** and **agents** shall have access to at all times.

3.10 Replace the second reference to “**principal agent**” with the word “**employer**”

4.3 No clause

5.1.2 under clause 41- Include reference to 32.6.3; 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the **principal agent** and in terms of which the employer shall sign all documents

10.5 Add the following as 10.5

Damage to the works

- a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and **security** measures and other steps for the protection and **security** of the **works** as the **contractor** may deem necessary
- b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- c) The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

10.6 Add the following as 10.6

Injury to Persons or loss of or damage to Properties

- a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable
- b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable or personal property or property contiguous to the **site**, whether belonging to or

	under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable c) The contractor shall upon receiving a contract instruction from the principal agent cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor. d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion. e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor, shall and will remain adequately insured or insured against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works 10.7 Add the following as 10.7 HIGH RISK INSURANCE In the event of the project being executed in a geological area classified as a “High Risk Area”, that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply: 10.7.1 Damage to the works The contractor shall, from the commencement date of the works until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor’s own costs 10.7.2 Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.7.3	It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty one (21) calendar days of the commencement date but before commencement of the works , submit to the employer proof of such insurance policy, if requested to do so
10.7.4	The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole
14.0	Replace the entire clause 14.0 with the following:
14.0	SECURITY
14.1	In respect of contracts with a contract sum up to R1 million, the security to be submitted by the contractor to the employer will be as a payment reduction of five percent (5%) of the value certified in the payment certificate (excluding VAT)
14.1.1	The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)
14.1.2	The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor
14.2	In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within fourteen (14) calendar days from commencement date . Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within fourteen (14) calendar days from commencement date , the security in terms of 14.7 shall be deemed to have been selected.
14.3	Where the security as a cash deposit of ten percent (10%) of the contract sum (excluding VAT) has been selected:
14.3.1	The contractor shall furnish the employer with a cash deposit equal in value to ten percent (10%) of the contract sum (excluding VAT) within fourteen (14) calendar days from commencement date
14.3.2	Within fourteen (14) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three percent (3%) of the contract value (excluding VAT), and refund the balance to the contractor
14.3.3	Within fourteen (14) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one percent (1%) of the contract value (excluding VAT) and refund the balance to the contractor
14.3.4	On the date of payment of the amount in the final payment certificate , the employer shall refund the remainder of the cash deposit to the contractor
14.3.5	The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor

14.3.6	The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party
14.4	Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected: NOT APPLICABLE
14.4.1	The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten percent (10%) of the contract sum (excluding VAT) within fourteen (14) calendar days from commencement date
14.4.2	The variable construction guarantee shall reduce and expire in terms of the Variable Construction guarantee form included in the invitation to Bidder
14.4.3	The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring
14.4.4	Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee
14.5	Where security as a fixed construction guarantee of five percent (5%) of the contract sum (excluding VAT) and a five percent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:
14.5.1	The contractor shall furnish a fixed construction guarantee to the employer equal in value to five percent (5%) of the contract sum (excluding VAT) within fourteen (14) calendar days from commencement date
14.5.2	The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion
14.5.3	The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring
14.5.4	The payment reduction of the value certified in a payment certificate shall be in terms of 31.8(A) and 34.8
14.5.5	Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both
14.6	Where security as a cash deposit of five percent (5%) of the contract sum (excluding VAT) and a payment reduction of five percent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:
14.6.1	The contractor shall furnish the employer with a cash deposit equal in value to five percent (5%) of the contract sum (excluding VAT) within fourteen (14) calendar days from commencement date
14.6.2	Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor
14.6.3	The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)
14.6.4	Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both
14.7	Where security as a payment reduction of ten percent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:
14.7.1	The payment reduction of the value certified in a payment certificate shall be mutatis

	mutandi in terms of 31.8(B)
14.7.2	The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor
14.8	Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement
14.9	Should the contractor fail to furnish the security in terms of 14.2 the employer , in his sole discretion, and without notification to the contractor , is entitled to change the contractor's selected form of security to that of a ten percent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable
15.1.1	No clause
15.1.4	Add 15.1.4 as follows: An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within fourteen (14) calendar days of commencement date . The abovementioned plan shall also address all additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines as an additional safe work procedure on site.
15.2.1	Under 41: Amend to read as follows: "Give the contractor possession of the site within five (5) working days of the contractor complying with the terms of 15.1.2 and 15.1.4
17.1.11	Delete the words "and the appointment of nominated and selected subcontractors "
20.1.3	No clause
21.0	No clause
29.2.5	No clause
31.5.2	Security adjustments in terms of 14.0 and 31.8
31.1.4	Add 15.1.4 as follows:
31.6	The value of materials and goods in terms of 31.4.2 shall be included in the value certified only where, to the satisfaction of the principal agent, the materials and goods are:
31.6.5	Add 31.6.5 as follows: Covered by an advance payment guarantee or such other security as may be accepted by the employer where stored off the site. Standard JBCC Guarantee wording would be applicable.
31.8	Amend as follows:
31.8(A)	Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and of the materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:
31.8(A).1	Ninety-five percent (95%) of such value in interim payment certificates issued up to the date of practical completion

31.8.(A).2	Ninety-seven percent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion
31.8.(A).3	Ninety-nine percent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6
31.8.(A).4	One hundred percent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer . In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate .
31.8.(B)	Where security is a payment reduction in term of 14.7 has been selected the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:
31.8.(B).1	Ninety percent (90%) of such value in interim payment certificates issued up to the date of practical completion
31.8.(B).2	Ninety-seven percent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion
31.8.(B).3	Ninety-nine percent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6
31.8.(B).4	One hundred percent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer . In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate
31.9	Replace "twenty-one (21) calendar days" with "thirty (30) calendar days". Should the Contractor's tax clearance certificate expire during the contract period, the Employer shall be entitled to withhold payment without incurring any liability for interest, until a valid tax clearance certificate is submitted to the Employer, at which point, upon that date, the thirty (30) day period for due date of payment of the invoice shall commence.
31.12	Delete the following: "Payment shall be subject to the employer giving the contractor a tax invoice for the amount due."
32.5.1 32.5.4 and 32.5.7	Add the following to the end of each of these clauses: "...due to no fault of the contractor "
32.12	Replace " contractor " with " employer "
33.2	Add the following clauses 33.2.9 to 33.2.13:
33.2.9	the contractor's failure or neglect to commence with the works on the dates prescribed in the contract
33.2.10	the contractor's failure or neglect to proceed with the works in terms of the contract
33.2.11	the contractor's failure or neglect for any reason to complete the works in accordance with the contract
33.2.12	the contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract

	33.2.13 the contractor's estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa 34.13 Replace "seven (7) calendar days" with "thirty (30) calendar days" and delete the words: "subject to the employer giving the contractor a tax invoice for the amount due" as per PPPFA 36.3 Remove reference to "No clause", and replace "principal agent" with "employer" 36.7 Add the following: "Notwithstanding any clause to the contrary, on cancellation of this 37.5 this agreement either by the employer or the contractor; or for any reason whatsoever and whatsoever, the contractor shall on written instruction, discontinue with the works on a 38.7 date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever" 37.3.5 Replace "ninety (90)" with "one hundred and twenty (120)" and 38.5.4 39.3.5 Add the following words at the end thereof: "within one hundred and twenty (120) working days of completion of such report" 40.2.2 under clause 41 – Replace "one (1) year" with "three (3) years" 40.6 under clause 41 – Remove reference to no clause 40.7.1 Change "(10)" to "(15)" Add the following to the end thereof: Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs.
42.0	PART 2: CONTRACT DATA PROVIDED BY THE CONTRACTOR
42.0.1	The successful contractor must have a built environment professional on his staff or he must employ one for the duration of the contract.
42.0.2	All bids shall remain valid for a period of one hundred and twenty (90) calendar days after the Request for Bid closing date.
42.0.3	The successful bidder will be required to submit an Approved Health and Safety File within fourteen (14) calendar days upon receipt of the letter of award.
42.0.4	The successful bidder will be required to submit a letter of good standing from the compensation commission or FEMA within fourteen (14) calendar days upon receipt of the letter of award.
42.0.5	The successful Bidder will be required to submit a construction program and contractor's cash flow within twenty one (21) calendar days upon receipt of the letter of award.
42.0.6	At least thirty percent (30%) of the total labour force employed during the execution of the works , shall be from the local community.
42.0.7	Labour rates to be in line with National Minimum Wage Act.
42.0.8	SMME Allocation to be in line with the allocation as per the regulation (30%) above the threshold stipulated by the authorities.
	POST-BID INFORMATION
42.5	CONTRACT DETAILS
42.5.1	Contractor:

	 Postal address: Tel: Fax: E-mail: TAX / VAT Registration No: Physical address: 								
42.5.2	The accepted contract sum inclusive of tax is R..... Amount in words:								
42.5.3 [31.3]	The latest day of the month for the issue of an interim payment certificate: 								
42.5.4 [32.12]	The preliminaries amounts shall be paid in terms of: Alternative A ☒ Alternative B ☐								
42.5.5 [32.12]	The preliminaries amounts shall be adjusted in terms of: Alternative A ☒ Alternative B ☐								
42.5.7 [14]	The security to be provided by the contractor: (a) in respect of contracts up to R1 million, the contractor will provide security in terms of 14.1 (b) in respect of contracts above R1 million, the contractor will provide, as security, one of the following: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 75%;">(1) cash deposit of 10% of the contract sum (excluding VAT)</td><td style="width: 25%;">Yes ☐ No ☐</td></tr> <tr> <td>(2) payment reduction of 10% of the value certified in the payment certificate (excluding VAT)</td><td>Yes ☐ No ☐</td></tr> <tr> <td>(3) cash deposit of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)</td><td>Yes ☐ No ☐</td></tr> <tr> <td>(4) fixed construction guarantee of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)</td><td>Yes ☐ No ☐</td></tr> </table>	(1) cash deposit of 10% of the contract sum (excluding VAT)	Yes ☐ No ☐	(2) payment reduction of 10% of the value certified in the payment certificate (excluding VAT)	Yes ☐ No ☐	(3) cash deposit of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)	Yes ☐ No ☐	(4) fixed construction guarantee of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)	Yes ☐ No ☐
(1) cash deposit of 10% of the contract sum (excluding VAT)	Yes ☐ No ☐								
(2) payment reduction of 10% of the value certified in the payment certificate (excluding VAT)	Yes ☐ No ☐								
(3) cash deposit of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)	Yes ☐ No ☐								
(4) fixed construction guarantee of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)	Yes ☐ No ☐								

	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 above. No alterations or amendments of the wording of the pro-forma will be accepted.																
42.5.8 [29.7.2]	The annual building holiday period after the commencement of the construction period: from to																
42.6	DOCUMENTS																
42.6.1	Contract documents marked and annexed hereto: <table border="1" style="width: 100%;"> <tr> <td style="width: 35%;">Priced bills of quantities:</td><td style="width: 20%;">Yes ☐ No ☐</td><td style="width: 45%;">Document marked as</td></tr> <tr> <td>Lump sum document:</td><td>Yes ☐ No ☐</td><td>Document marked as</td></tr> <tr> <td>Guarantees:</td><td>Yes ☐ No ☐</td><td>Document marked as</td></tr> <tr> <td>Contract drawings:</td><td>Yes ☐ No ☐</td><td>Document marked as</td></tr> <tr> <td>Other documents</td><td>Yes ☐ No ☐</td><td>(attach additional pages if more space is required)</td></tr> </table>		Priced bills of quantities:	Yes ☐ No ☐	Document marked as	Lump sum document:	Yes ☐ No ☐	Document marked as	Guarantees:	Yes ☐ No ☐	Document marked as	Contract drawings:	Yes ☐ No ☐	Document marked as	Other documents	Yes ☐ No ☐	(attach additional pages if more space is required)
Priced bills of quantities:	Yes ☐ No ☐	Document marked as															
Lump sum document:	Yes ☐ No ☐	Document marked as															
Guarantees:	Yes ☐ No ☐	Document marked as															
Contract drawings:	Yes ☐ No ☐	Document marked as															
Other documents	Yes ☐ No ☐	(attach additional pages if more space is required)															

42.8	SIGNATURES OF THE CONTRACTING PARTIES							
	Thus done and signed at _____ on _____ <table style="width: 100%;"> <tr> <td style="width: 50%;"> _____ Name of signatory </td> <td style="width: 50%;"> _____ for and behalf of the Employer who by signature hereof warrants authorization hereto </td> </tr> <tr> <td> _____ Capacity of signatory </td> <td> _____ as Witness </td> </tr> </table> Thus done and signed at _____ on _____ <table style="width: 100%;"> <tr> <td style="width: 50%;"> _____ Name of signatory </td> <td style="width: 50%;"> _____ for and behalf of the Contractor who </td> </tr> </table>		_____ Name of signatory	_____ for and behalf of the Employer who by signature hereof warrants authorization hereto	_____ Capacity of signatory	_____ as Witness	_____ Name of signatory	_____ for and behalf of the Contractor who
_____ Name of signatory	_____ for and behalf of the Employer who by signature hereof warrants authorization hereto							
_____ Capacity of signatory	_____ as Witness							
_____ Name of signatory	_____ for and behalf of the Contractor who							

	by signature hereof warrants authorization
hereto	
Capacity of signatory	as Witness

C1.3 Form of Guarantee

C 1.3.1: FIXED CONSTRUCTION GUARANTEE - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

1. With reference to the contract between _____
_____ (hereinafter referred to as the **"contractor"**) and the **Eastern Cape Department of Education** (hereinafter referred to as the **"employer"**).
Request for Bid No: **BID NO: SCMU6-25/26-0002** for the **APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS** (hereinafter referred to as the **"contract"**)

in the amount of R _____, (_____
_____) (amount in words),
(hereinafter referred to as the **contract sum** excluding VAT.)

I/We, _____

in my/our capacity as _____ and hereby
representing _____ (hereinafter
referred to as the **guarantor**) advise that the **guarantor** hold at the **employer's** disposal the sum of
R _____ (_____)
(amount in words) being 5% of the **contract sum** (excluding VAT), for the due fulfilment of the contract.
2. The **guarantor** hereby renounces the benefits of the exceptions non numeratae pecunia, non causa debiti; excussionis et divisionis; and all other exceptions which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof i/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed, during the period when the claim is received by the **guarantor**, on receipt of a written demand from the **employer** to do so, and which demand the **employer** may make if the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
3. Subject to the above, but without in any way detracting from the **employer's** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **employer**, at any stage prior to the expiry of this guarantee.
4. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last final **payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
5. 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 on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the **construction period**, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
6. This undertaking is neither negotiable nor transferable, and
 - a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 4 above, or
 - b) shall lapse on the date of the last **certificate of practical completion**; and
 - c) shall not be interpreted as extending the **guarantor's** liability to anything more than payment of the amount guaranteed.

SIGNED AT _____ ON THIS _____ DAY OF _____ 20____

AS WITNESS

1. _____

2. _____

By and on behalf of _____

(insert the name and physical address of the guarantor)

NAME: _____

CAPACITY: _____
(duly authorized thereto by resolution attached marked Annexure A)

DATE: _____

- A. No alterations and/or additions of the wording of this form will be accepted.
- B. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- C. This GUARANTEE must be returned to:

Part 3: Returnable Schedules/Documents

T2.1 List of Returnable Documents

2.1: LIST OF RETURNABLE DOCUMENTS

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS		
Principal Agent:	Eastern Cape Province Department of Education	Bid No:	SCMU6-25/26-0002

1. RETURNABLE DOCUMENTS REQUIRED FOR TENDEER EVALUATION PURPOSES

(Insert a tick in the "Returnable document" column to indicate which documents must be returned with the Bid)

Bid Document Name	Number of pages issued	Returnable Document
Declaration of Interest (SBD4)	3 Pages	☒ Yes ☐ No
Preference points claim form in terms of Preferential Procurement Regulations 2022 (SBD 6.1)	6 Pages	☒ Yes ☐ No
Certificate of Authority for Signatory (T2.2.1)	1 Page	☒ Yes ☐ No
Certificate of Authority for Joint Ventures (T2.2.2) (if applicable)	1 Page	☒ Yes ☐ No
Schedule of Proposed Subcontractors (T2.2.3)	1 Page	☐ Yes ☒ No
Final Summary Page of Bills of Quantities (C1.1a)	1 Page	☒ Yes ☐ No
Completed Project Reference Forms (T2.2.13)	6 Pages	☐ Yes ☒ No

2. OTHER DOCUMENTS REQUIRED FOR REQUEST FOR BID EVALUATION PURPOSES

Bid Document Name	Number of pages issued	Returnable Document
Site Inspection Certificate (T2.2.4)	1 Page	☐ Yes ☒ No
Capacity of the Bidder (T2.2.6)	1 Page	☒ Yes ☐ No
Relevant Project Experience - Completed Projects (T2.2.7)	1 Page	☒ Yes ☐ No
Relevant Project Experience - Current Projects (T2.2.8)	1 Page	☒ Yes ☐ No
CIDB Grading Certificate (T2.2.11)	1 Page	☒ Yes ☐ No
Letter of Good Standing from Compensation Fund (T2.2.12)	1 Page	☒ Yes ☐ No
Proof of Locality of Head Office (T2.2.12)	1 Page	☒ Yes ☐ No

3. RETURNABLE DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

Bid Document Name	Number of pages issued	Returnable Document
Record of Addenda to Request for Bid Documents (T2.2.5)	1 Page	☒ Yes ☐ No
Schedule of Plant and Equipment (T2.2.9)	1 Page	☐ Yes ☒ No
Compulsory Enterprise Questionnaire (T2.2.10)	1 Page	☒ Yes ☐ No

4. OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

Bid Document Name	Number of pages issued	Returnable Document
Form of Offer and Acceptance (C1.1)	3 Pages	☒ Yes ☐ No
Contract Data (C1.2)	14 Pages	☒ Yes ☐ No
Applicable form of Guarantee (C1.3)	4 Pages	☐ Yes ☒ No
Priced Bills of Quantities including Preliminaries (C2.2)	70 Pages	☒ Yes ☐ No

T2.2 Returnable schedules

SBD 4 : BIDDER'S 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 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

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.

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 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.

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 ~~56~~ contract.

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

SBD 5 : The National Industrial Participation Programme

This document must be signed and submitted together with your bid

THE NATIONAL INDUSTRIAL PARTICIPATION PROGRAMME

INTRODUCTION

The National Industrial Participation (NIP) Programme, which is applicable to all government procurement contracts that have an imported content, became effective on the 1 September 1996. The NIP policy and guidelines were fully endorsed by Cabinet on 30 April 1997. In terms of the Cabinet decision, all state and parastatal purchases / lease contracts (for goods, works and services) entered into after this date, are subject to the NIP requirements. NIP is obligatory and therefore must be complied with. The Industrial Participation Secretariat (IPS) of the Department of Trade and Industry (DTI) is charged with the responsibility of administering the programme.

1 PILLARS OF PROGRAMME

- 1.1 The NIP obligation is benchmarked on the imported content of the contract. Any contract having an imported content equal to or exceeding US\$ 10 million or other currency equivalent to US\$ 10 million will have a NIP obligation. This threshold of US\$ 10 million can be reached as follows:
- (a) Any single contract with imported content exceeding US\$10 million.
or
 - (b) Multiple contracts for the same goods, works or services each with imported content exceeding US\$3 million awarded to one seller over a 2 year period which in total exceeds US\$10 million.
or
 - (c) A contract with a renewable option clause, where should the option be exercised the total value of the imported content will exceed US\$10 million.
or
 - (d) Multiple suppliers of the same goods, works or services under the same contract, where the value of the imported content of each allocation is equal to or exceeds US\$ 3 million worth of goods, works or services to the same government institution, which in total over a two (2) year period exceeds US\$10 million.
- 1.2 The NIP obligation applicable to suppliers in respect of sub-paragraphs 1.1 (a) to 1.1 (c) above will amount to 30 % of the imported content whilst suppliers in respect of paragraph 1.1 (d) shall incur 30% of the total NIP obligation on a *pro-rata* basis.
- 1.3 To satisfy the NIP obligation, the DTI would negotiate and conclude agreements such as investments, joint ventures, sub-contracting, licensee production, export promotion, sourcing arrangements and research and development (R&D) with partners or suppliers.

- 1.4 A period of seven years has been identified as the time frame within which to discharge the obligation.

2 REQUIREMENTS OF THE DEPARTMENT OF TRADE AND

- 2.1 In order to ensure effective implementation of the programme, successful bidders (contractors) are required to, immediately after the award of a contract that is in excess of **R10 million** (ten million Rands), submit details of such a contract to the DTI for reporting purposes.
- 2.2 The purpose for reporting details of contracts in excess of the amount of R10 million (ten million Rands) is to cater for multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as provided for in paragraphs 1.1.(b) to 1.1. (d) above.

3 BID SUBMISSION AND CONTRACT REPORTING REQUIREMENTS OF BIDDERS AND SUCCESSFUL BIDDERS (CONTRACTORS)

- 3.1 Bidders are required to sign and submit this Standard Bidding Document (SBD 5) together with the bid on the closing date and time.
- 3.2 In order to accommodate multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as indicated in sub-paragraphs 1.1 (b) to 1.1 (d) above and to enable the DTI in determining the NIP obligation, successful bidders (contractors) are required, immediately after being officially notified about any successful bid with a value in excess of R10 million (ten million Rands), to contact and furnish the DTI with the following information:
- Bid / contract number.
 - Description of the goods, works or services.
 - Date on which the contract was accepted.
 - Name, address and contact details of the government institution.
 - Value of the contract.
 - Imported content of the contract, if possible.
- 3.3 The information required in paragraph 3.2 above must be sent to the Department of Trade and Industry, Private Bag X 84, Pretoria, 0001 for the attention of Mr Elias Malapane within five (5) working days after award of the contract. Mr Elias Malapane may be contacted on telephone (012) 394 1401, facsimile (012) 394 2401 or e-mail at Elias@thedti.gov.za for further details about the programme.

4 PROCESS TO SATISFY THE NIP OBLIGATION

- 4.1 Once the successful bidder (contractor) has made contact with and furnished the DTI with the information required, the following steps will be followed:
- a. the contractor and the DTI will determine the NIP obligation;
 - b. the contractor and the DTI will sign the NIP obligation agreement;

- c. the contractor will submit a performance guarantee to the DTI;
- d. the contractor will submit a business concept for consideration and approval by the DTI;
- e. upon approval of the business concept by the DTI, the contractor will submit detailed business plans outlining the business concepts;
- f. the contractor will implement the business plans; and
- g. the contractor will submit bi-annual progress reports on approved plans to the DTI.

4.1 The NIP obligation agreement is between the DTI and the successful bidder (contractor) and, therefore, does not involve the purchasing institution.

Bid number

Closing date:.....

Name of bidder..... Postal

address

.....

Signature.....

Name (in print).....

Date.....

SBD 6.1 : Preference Points Claim Form

SBD 6.1

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, TENDERERS 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); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

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

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- ~~b) The applicable preference point system for this tender is the 80/20 preference point system.~~
- ~~c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.~~

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	90
SPECIFIC GOALS	10
Total points for Price and SPECIFIC GOALS	100

- 1.5 Failure on the part of a tenderer 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 tenderer, 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.

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

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

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

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

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

Where

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

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

3.2.1. POINTS AWARDED FOR PRICE

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

$$\begin{array}{ccc} 80/20 & \text{or} & 90/10 \\ P_s = 80 \left(1 + \frac{P_t - P_{max}}{P_{max}} \right) & \text{or} & P_s = 90 \left(1 + \frac{P_t - P_{max}}{P_{max}} \right) \end{array}$$

Where

- P_s = Points scored for price of tender under consideration
 P_t = Price of tender under consideration
 P_{max} = Price of highest 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 tenderer 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:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,
- then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

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

Note to tenderers: The tenderer 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 (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Historically disadvantaged individuals	2	4		
Persons with disabilities	1	2		
Promotion of Youth	1	3		
Woman Participation	2	3		
Enterprises located in the Eastern Cape Province	4	8		

DECLARATION WITH REGARD TO COMPANY/FIRM

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

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the 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 tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

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

T2.2.1 Certificate of Authority for Signatory

T2.2.1: CERTIFICATE OF AUTHORITY FOR SIGNATORY

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

NOTE: Bidders can use this form or attach a separate Letter of Authority for Signatory

Signatory for companies shall confirm their authority hereto by attaching a duly signed and dated copy of the relevant resolution of the board of directors to this form on the company's letterhead.

"By resolution of the board of directors passed at a meeting held on _____

Mr/Ms _____, whose signature appears below, has been duly authorised to sign all documents in connection with the bidder for Contract No. _____

and any Contract which may arise there from on behalf of (Block Capitals) _____

SIGNED ON BEHALF OF THE COMPANY: _____

IN HIS/HER CAPACITY AS: _____

DATE: _____

SIGNATURE OF SIGNATORY: _____

WITNESSES:

1. _____ SIGNATURE: _____

2. _____ SIGNATURE: _____

T2.2.2 Certificate of Authority for Joint Ventures

T2.2.2: CERTIFICATE OF AUTHORITY FOR JOINT VENTURES

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

This returnable schedule is to be completed by joint ventures.

We, the undersigned, are submitting this Request for Bid in Joint Venture and hereby authorise Mr/Ms

_____, of the company _____

_____, acting in the

capacity of lead partner, to sign all documents in connection with the Request for Bid and any contract resulting from it on our behalf.

Name of Firm	Address	Duly Authorised Signatory
Lead Partner _____		Signature: _____ Name: _____ Designation: _____
 _____		Signature: _____ Name: _____ Designation: _____
 _____		Signature: _____ Name: _____ Designation: _____
 _____		Signature: _____ Name: _____ Designation: _____

T2.2.4 Site Inspection Certificate

T2.2.4: SITE INSPECTION CERTIFICATE

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

I/We have visited the site for the above-mentioned works at the date specified below.

I/We have thoroughly studied the site, plans and contract documents and I/We have brought myself/ourselves fully conversant with all aspects which could possibly influence the construction of the works.

I/We further certify that I/We am/are satisfied with the description of the works and the explanation given to me/us by the Representative/Agent at the inspection and I/We fully understand the extent of the work to be done as specified and implied for the execution of this contract.

Both attendance Register and Site inspection certificate could be used to verify attendance.

Date of Inspection: 15 July 2025

Time of Inspection: 10H00

Name of Tenderer

Signature of Tender

Signature of Representative/Agent

Date

T2.2.5 Record of Addenda to Request for Bid Documents

T2.2.5: RECORD OF ADDENDA TO BID DOCUMENTS

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

We confirm that the following communications received from the Employer before the submission of this Request for Bid offer, amending the Request for Bid documents, have been taken into account in this Request for Bid offer:		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

Signed

Date

Name

Position

Bidder

T2.2.6 Capacity of Bidder

T2.2.6: CAPACITY OF THE BIDDER

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

WORK CAPACITY: (The Bidder is requested to furnish the following capacity particulars and to attach additional pages if more space is required. Details of project team including CV, qualifications and proof of registration completed for each individual to be provided by Bidder. Failure to furnish the particulars may result in the Bid being disregarded.)

Artisans and Employees: (Artisans and Employees to be, or are, employed for this project)

Quantity / No. of Resources	Categories of Employee - Key Personnel (part of Business Enterprise)	Professional Registration No.	Date of Employment
	Site Agent		
	Project Manager		
	Foreman		
	Quality Control & Safety Officer-Construction Supervisor		
	Artisans		
	Unskilled employees		
	Others		

The undersigned, who warrants that she/ he is duly authorised to do so on behalf of the enterprise, confirms that the content of this schedule that presented by the Bidder are within my personal knowledge and are to the best of my knowledge both true and correct.

Signed:		Date:	
Name:		Position:	

Bidder:

T2.2.7 Relevant Project Experience - Completed Projects

T2.2.7: RELEVANT PROJECT EXPERIENCE – COMPLETED PROJECTS

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

Bidders must submit a max one-page description of at least three projects successfully completed.

Attach a Completion Certificate for each of the project provided.

The description of each project must include the following information:

1. Essential introductory information:
 - 1.1. Name of project.
 - 1.2. Name of client.
 - 1.3. Contact details of client.
 - 1.4. Contact details (including telephone numbers and email addresses) of currently contactable references.
 - 1.5. The period during which the project was performed, and also, if this is different, the period during which the Bidder's team members were contracted.
 - 1.6. Cost of works and/or contract value (making it clear in broad terms what this cost/value purchased, and to what extent (if any) this cost/value was part of a larger project budget or programme budget).

NO.	NAME OF PROJECT	NAME OF CLIENT	CONTACT DETAILS OF CLIENT	PROJECT VALUE	DATE COMPLETED
1					
2					
3					

Attach a separate page to address this issue (the above table is just for reference purposes).

The undersigned, who warrants that she/ he is duly authorised to do so on behalf of the enterprise, confirms that the content of this schedule that presented by the Bidder are within my personal knowledge and are to the best of my knowledge both true and correct.

Signed _____ Date _____

Name _____ Position _____

Bidder _____

T2.2.8 Relevant Project Experience - Current Projects

T2.2.8: RELEVANT PROJECT EXPERIENCE – CURRENT PROJECTS

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

Bidders must submit a max one-page description of at least three projects under construction/ on hold/ just handed over/ towards completion (if they exist).

Attach an Appointment letter for each of the project provided.

The description of each project must include the following information:

2. Essential introductory information:

- 2.1. Name of project.
- 2.2. Name of client.
- 2.3. Contact details of client.
- 2.4. Contact details (including telephone numbers and email addresses) of currently contactable references.
- 2.5. The period during which the project was performed, and also, if this is different, the period during which the Bidder's team members were contracted.
- 2.6. Cost of works and/or contract value (making it clear in broad terms what this cost/value purchased, and to what extent (if any) this cost/value was part of a larger project budget or programme budget).

NO.	NAME OF PROJECT	NAME OF CLIENT	CONTACT DETAILS OF CLIENT	CONTACT DETAILS OF REFERENCES	PROJECT VALUE	STAGE OF PROJECT
1						
2						
3						

Attach a separate page to address this issue (the above table is just for reference purposes).

The undersigned, who warrants that she/ he is duly authorised to do so on behalf of the enterprise, confirms that the content of this schedule that presented by the Bidder are within my personal knowledge and are to the best of my knowledge both true and correct.

Signed Date

Name Position

Bidder

T2.2.9 Schedule of Plant & Equipment

T2.2.9: SCHEDULE OF PLANT AND EQUIPMENT

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

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 Bid 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 Bid is acceptable.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

Signed _____ Date _____

Name _____ Position _____

Bidder _____

T2.2.10 Compulsory Enterprise Questionnaire

T2.2.10: COMPULSORY ENTERPRISE QUESTIONNAIRE

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS		
Bid No:	SCMU6-25/26-0002		
The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.			
Section 1: Name of enterprise:			
Section 2: VAT registration number, if any:			
Section 3: CIDB registration number, if any:			
Section 4: CSD number:			
Section 5: Particulars of sole proprietors and partners in partnerships:			
Name*	Identity number*	Personal income tax number*	
<i>*Complete only if sole proprietor or partnership and attach separate page if more than 3 partners</i>			
Section 6: Particulars of companies and close corporations			
Company registration number:			
Close corporation number:			
Tax reference number:			
Section 7: SBD4 issued by National Treasury must be completed for each Bidder and be attached as a Request for Bid requirement.			
Section 8: SBD6 issued by National Treasury must be completed for each Bidder and be attached as a Request for Bid requirement.			
The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise: i) authorizes the employer to verify the Bidders tax clearance status from the South African Revenue Services that it is in order; ii) confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004; iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise control over the enterprise appears, has within the last five years been convicted of fraud or corruption; iv) confirms that I / we are not associated, linked or involved with any other bidding entities submitting Request for Bid offers and have no other relationship with any of the Bidders or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and v) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.			
Signed		Date	
Name		Position	
Enterprise name			

T2.2.11 CIDB Grading Certificate / Proof of Registration

T2.2.11: CIDB GRADING CERTIFICATE/PROOF OF REGISTRATION

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

Bidders are required to submit with their Request for Bid:

A Certificate of Contractor Registration issued by the Construction Industry Development Board.

**NOTE: PROOF OF CIDB GRADING TO BE ATTACHED TO THIS PAGE BY
BIDDER
IN THE CASE OF A JOINT VENTURE, SEPARATE CERTIFICATES IN
RESPECT OF EACH PARTNER MUST BE SUBMITTED**

T2.2.12 Other certificates, etc.

T2.2.12: OTHER CERTIFICATES, ETC TO BE PROVIDED BY BIDDER

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Request for Bid No:	SCMU6-25/26-0002

Bidders are required to submit with their Request for Bid:

- Letter of Good Standing from Compensation Fund or a licensed insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act 1993
- Proof of locality of head office by way of certified copy of municipal account or lease agreement

NOTE: CERTIFICATES, ETC TO BE ATTACHED TO THE RELEVANT PAGE HEREAFTER

**Insert Letter of Good Standing from Compensation
Fund**

T2.2.13 Insert Completed Project Reference Forms

PROJECT REFERENCE RETURNABLE 1 OF 3

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

NOTE: This returnable document must be completed by the person who was the principal agent on a construction project of similar value and complexity that was completed successfully by the Bidder.

I, _____ (name and surname) of
 _____ (company name) declare

that I was the principal agent on the following building construction project successfully
 executed by _____ (name of Bidder):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

A. Please evaluate the performance of the Bidder on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5
1. Project performance / time management / programming					
2. Quality of workmanship					
3. Resources: Personnel					
4. Resources: Plant					
5. Financial management / payment of subcontractors / cash flow, etc					

B. Would you consider / recommend this Bidder again:

YES	NO

C. Any other comments:

D. My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 20__

Signature of principal agent

COMPANY STAMP

NOTE:

If reference cannot be verified due to the inability to contact the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points.

Name of Bidder

Signature of Bidder

Date

PROJECT REFERENCE RETURNABLE 2 OF 3

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

NOTE: This returnable document must be completed by the person who was the principal agent on a construction project of similar value and complexity that was completed successfully by the Bidder.

I, _____ (name and surname) of
 _____ (company name) declare

that I was the principal agent on the following building construction project successfully
 executed by _____ (name of Bidder):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

A. Please evaluate the performance of the Bidder on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5
1. Project performance / time management / programming					
2. Quality of workmanship					
3. Resources: Personnel					
4. Resources: Plant					
5. Financial management / payment of subcontractors / cash flow, etc					

B. Would you consider / recommend this Bidder again:

YES	NO

C. Any other comments:

D. My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 20__

Signature of principal agent

COMPANY STAMP

NOTE:

If reference cannot be verified due to the inability to contact the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points.

Name of Bidder

Signature of Bidder

Date

PROJECT REFERENCE RETURNABLE 3 OF 3

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

NOTE: This returnable document must be completed by the person who was the principal agent on an construction project of similar value and complexity that was completed successfully by the Bidder.

I, _____ (name and surname) of
 _____ (company name) declare

that I was the principal agent on the following building construction project successfully
 executed by _____ (name of Bidder):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

A. Please evaluate the performance of the Bidder on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5
1. Project performance / time management / programming					
2. Quality of workmanship					
3. Resources: Personnel					
4. Resources: Plant					
5. Financial management / payment of subcontractors / cash flow, etc					

B. Would you consider / recommend this Bidder again:

YES	NO

C. Any other comments:

D. My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 20__

Signature of principal agent

COMPANY STAMP

NOTE:

If reference cannot be verified due to the inability to contact the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points.

Name of Bidder

Signature of Bidder

Date

THE CONTRACT

Part 4: Scope of Work

C3.1 Scope of work

**C3.1: SCOPE OF WORKS – JBCC 2000 PRINCIPAL BUILDING
AGREEMENT (Edition 4.1 of March 2005)**

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Request for Bid No:	SCMU6-25/26-0002

C3. Scope of Works

1. GENERAL

a) EXTENT OF THE WORKS

The work comprises of:

Construction of 16 new classrooms, 4 x HOD offices, Administration block, Dining and Nutrition, Multi-purpose classroom, Science lab, Library and Computer lab, gatehouse, refurbishment to ablutions, demolitions, dismantling of existing prefab structures, electrical installation, mechanical installation, external works including site works, retaining walls, walkways, paving to assemble area, concrete parking, water reticulations, drinking fountains, rainwater tanks including stands, entrance walls, flagpoles, signages, plaques, stormwater channels, etc.

b) ORDER OF THE WORKS

c) BUILDING OCCUPIED

Yes

d) ACCESS – Gravel Road

C3.2 Health and Safety Specification

OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

FOR

**CONSTRUCTION OR REFURBISHMENT OF EC
SCHOOLS (SMALL PROJECTS)**

**EASTERN CAPE DEPARTMENT OF
EDUCATION**

(THE “CLIENT”)

Prepared By:	Dr. Claire Deacon CHSA010/2013
Last revision 02/12/2022 By:	Ntokozo Ngwenya

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Project Details	
Date of compilation:	Revision number: 00
Value of project:	Commencement date:
	Contract period:
Occupational Health and Safety Agent:	

<i>Professional responsibilities</i>	<i>Company</i>	<i>Contact person</i>	<i>Telephone</i>	<i>Fax</i>	<i>email</i>
Architects					
Civil Engineers					
Structural Engineers					
Electrical Engineers					
HVAC Engineers & Fire Consultants					
Quantity Surveyors					

Site Details:

Locality of the works:

REFERENCES,

- Occupational Health and Safety Act (OHSA) No. 85 of 1993 and Regulations (as amended);
- Compensation for Injury and Occupational Diseases Act (COIDA) No. 100 of 1993 (as amended);
- South African Council for the Project and Construction Management Professions (SACPCMP) 2013: Scope of services for the OHS Consultant, Manager and Officer;
- Any other internal standards and specifications developed by the Client as they affect the operations, and
- The amended Baseline Risk assessment
- South African Roads Traffic Safety Manual (SARTSM) Chapter 2, Volume 13 of 1999
- Road Traffic Safety Act No. 93 of 1996 (as amended)
- Construction Specifications & Standards 6.0 for Southern Africa. Hans Wegelin 6th Edition 2010
- SANS Code 10400
- SABS 1200

1. LIST OF ABBREVIATIONS

AIA	Approved Inspection Authority
BoQ	Bill of Quantities
CC	Compensation Commissioner
CR	Construction Regulations
CHSO	Construction Health and Safety Officer
DMR	Driven Machinery Regulations
DEL	Department of Employment and Labour
FEMA	Federated Employers Mutual Association
GAR	General Administration Regulations
GSR	General Safety Regulations

HCSR	Hazardous Chemical Substances Regulations
HIRA	Hazard Identification Risk Assessment
H&S	Health and Safety
ER	Engineer's Representative
LI	Labour Intensive
DMA	Disaster Management Act
OH	Occupational Health
OHSA	Occupational Health and Safety Act No. 85 of 1993 (as amended)
SSHSS	Site Specific Health and Safety Specification
PC	Principal Contractor
PPE	Personal Protective Equipment
SANS	South African National Standards (Authority)
SACPCMP	South African Council for Project and Construction Management Professions
SDS	Safety Data Sheet
SMME	Small, Micro, Medium Enterprise
SWP	Safe Work Procedure

Each year fatalities, serious injuries and poor attitudes of Contractors mar the reputation of the Construction Industry. The CLIENT has a responsibility to limit its risk by ensuring a zero tolerance and better practice approach to Contractors and those affiliated to a particular project. Thus, a high premium is placed on the health and safety (H&S) of the Client and stakeholders, which include its employees, professional service providers, public and its physical assets.

The responsibilities that the Client and relevant stakeholders have toward its employees are captured in, but not limited to this document. The responsibilities stem from both moral, civil and a variety of legal obligations. The Principal Contractor is to take due cognisance of the above statement.

Where there is an appointed OHS Consultant its behalf, shall provide a site specific Health & Safety Specification (SSHSS) for the project and provide the Principal Contractor/s (PC) making a bid or appointed to perform construction work for the project, or parts thereof.

By drawing up this SSHSS, the Client has endeavoured to address the most critical aspects relating to H&S issues in order to assist the contractor in adequately providing for the health and safety of employees on site.

Should the Client not have addressed all H&S aspects pertaining to the work that is tendered for, the contractor needs to include it in the SSHSP and inform the Client of such issues when submitting the tender, or as soon as identified.

Notwithstanding the above, cognisance needs to be taken of the current Disaster Management Plan, and all the requirements of the current levels of lockdown, standards, guidelines and information published from time to time.

2. Purpose of the Site Specific Health and Safety Specification (SSHSS)

The SSHSS is a performance specification to ensure that the Client and any bodies that enter into formal agreements with the Client, Agents, Professional Designers (Engineers, Quantity Surveyors and Architects), Principal Contractors and Contractors achieve an acceptable level of OHS performance.

No advice, approval of any document required by the SSHSS, such as hazard identification and risk assessments, or any other form of communication from the Client shall be construed as acceptance by the Client of any obligation that absolves the Principal Contractor from achieving the required level of performance and compliance with legal requirements. Furthermore, there is no acceptance of liability by the Client, which may result from the Principal Contractor failing to comply with the SSHSS, i.e. the Principal Contractor remains responsible for achieving the required performance levels.

A Mandatary Agreement in terms of Section 37.2 of the OHSA will be signed between parties prior to any works commencing. If the NEC contract is used a copy of the signed contract shall form part of the H&S file submission.

The SSHSS highlights the aspects to be implemented over and above the minimum requirements of current legislation. Requirements may be changed should new risks or issues are identified that could not have been foreseen during the design phase of the project, or during the construction phase. Any new legislation or standards (legislated or determined by the Client) that are promulgated or accepted during the contract will automatically be applied.

Environmental management shall receive due attention as per the requirements of the Environmental Control Officer (ECO), but will be managed by the ECO directly if applicable to the project.

2.1 Project description/detailed scope of work as it applies to the project (Details as per the scope of work)

The Scope of work as identified by the Stakeholders is as follows:

- Preliminary and General
- Breaking
- Painting
- Carpentry
- Brickwork
- Roof Work
- Asbestos Work

The works shall be done in accordance with the applicable SANS 1200 specifications, Municipal By-laws and Regulations, variations and additions to the standardized specifications applicable to this contract and the technical specifications of the Client for work that falls outside of the standardized specifications.

2.2 Programme Description

Clarification Meeting	<i>TBA</i>
Time allowed for preparation of H&S plan/file after tender award	
Approval date of SSHSP	<i>Within 1 week after submission but subject to content as per this requirement, for more than one review.</i>
Induction dates	<i>To be advised after Approvals of H&S Plan/file</i>
Estimated Commencement date of work on site	<i>Subject to approval of H&S Plan.</i>
Estimated Project completion date or project duration	<i>Dependant on site establishment and site hand over</i>
Project term	

3. Implementation of the Site Specific Occupational Health and Safety Specifications (SSHSS)

The site specific H&S specification (SSHSS) forms an integral part of the Contract, and PCs are required to make it an integral part of their Contracts with Contractors and Suppliers. A SSHSS will be available for each level of Contract and Contractor and must be complied with.

This specification must be read in conjunction with the OHSA, Regulations (as amended) and any other standards relating to work being done and ensure compliance thereto. The information relative to the scope of the project, the works etc. are detailed in the tender, are to be considered when developing the SSHSP and associated documentation. The summary of risks is included in Section 2 of the SSHSS.

The OHSA S.37.2 Mandatory Agreement must be fully completed by the PC, supplied by the Client. These documents shall be deemed to form part of the returnable Contract Documents.

No work may commence without written approval of the SSHSP by the H&S Agent, or the responsible person of the Client.

Should there be design changes, or change in the scope of works, an amended SSHSS may be issued. Where amended SSHSSs are issued, the PC will be required to ensure a resubmission of an amended SSHSP for approval. Further to this, the PC must ensure that similar information must be provided as it applies to the works to all their Contractors, within 5 working days following notification thereof. Such design changes.

The OHS Consultant will visit the project at least bi-monthly to ensure compliance and limit risk. All activities on the site and all appropriate documentation will be monitored and reported on to the Client and the Designer.

Non-conformances will be issued, and penalties or work stoppage will be issued where appropriate. Communication between the OHS Consultant and the PC will be through the Designer (or Client's responsible person) as determined at the commencement of the project.

3.1 Requirements at Start Up

A site specific H&S Plan (SSHSP) in response to this SSHSS will be subject to approval by the OHS Consultant within the stipulated time period as noted in the tender. This must include all supporting documentation as required to verify the H&S system:

- A declaration to the effect that the PC has the competence and necessary resources to carry out the work safely in compliance with the Occupational Health and Safety Act and its Regulations;
- A valid Letter of Good Standing;
- Detailed technical method statements along with, and aligned with the project programme for review by the Principal Agent, Designer and appropriate risk assessments and safe work procedures for approval by the OHS Consultant or Client:
- Site establishment including:
 - A procedure must be drafted relative to protection/ prevention of injury to persons other than PC employees, during undertaking of such construction activity.
 - Exposure of services, power, telecommunication etc.;
 - Arrangements for hoarding, traffic accommodation if applicable:
 - Excavating for services;
 - An emergency plan indicating how and where emergencies will be handled, and
 - Working at heights (if applicable).

Further method statements are to be submitted prior to, and during the project where changes or new work is required, and the approval of the Principal Agent/Client is required before work on that aspect or activity can commence. The construction CHSO (CHSO) is to be included in production planning sessions/meetings to ensure that the appropriate risk assessments, safe work procedures and communication required are available and completed timeously.

Penalties will be applied should this not be adhered to and deemed a serious offence.

4. GENERAL REQUIREMENTS

4.1 Summary of Risks identified during Design

The intention of the summary of findings from the design risk assessment is to highlight the residual risks identified during the design phase. The full design risk assessment can be found in the tender document.

The summary of risks provided is to point the contractor towards some risks he may not be aware of during tendering stage and while developing his formal risk assessments for the project.

The design risks and the management thereof should be included in the PC risk assessments. Where there are other Contractors appointed to do work, the PC is to ensure that Contractors include such information in their risk assessments.

The summary is to be developed following the completion of the Design risk assessment, and to include the residual risks as they apply to the project.

PHASES OF THE PROJECT	RESIDUAL RISKS IDENTIFIED TO BE MANAGED (as applicable)
Site Establishment	Bringing in containers, fitting with electricity, phone and fax, toilet hire. Hoarding, security and access to be managed and in place.
Site Clearance	Traffic accommodation, movement of heavy construction vehicles, use hand tools, chainsaws, use of local labour and contractors.
Earthworks	Open excavations, use of plant and machinery, use of lifting equipment for laying storm water concrete pipes, electrical hand tools plant and equipment during paving. Noise monitoring.
Ancillary Roadworks	Use of chemicals, excavation and use of hand tools.

Housekeeping, stacking and storage	The area is adequate to ensure housekeeping and stacking and storage principles are followed. However, the children need to be kept well away from all work areas including the site camp, and notices to be clear in warning of dangerous construction activities. Care and increased attention to ensure all materials and vehicles are carefully managed and designated routes are used.
General	Use of local labour, and contractors, CLO to do regular information sessions. High winds and inclement weather require monitoring for all working at heights
Painting	Hand mixing may occur, 50kg paint drums are an ergonomic risk from handling. Potential eye, skin and respiratory irritant from paint fumes exposure, chromates.

4.2 Specified Hazardous Chemical Substances

The following lists of products or substances are those which have been identified as likely to be used on the project. This list is not inclusive and other products may be considered. Where the PC is likely to supply the product as the product has not been specified, safety data sheets (SDSs) need to be considered prior to all selections.

PRODUCTS/SUBSTANCES/RISKS	POTENTIAL HEALTH OR OTHER RISKS
Cement	Hand mixing may occur, 50kg bags are an ergonomic risk from handling. Potential eye, skin and respiratory irritant from dust exposure, chromates.
Cement/Silica dust	Caused by cutting, grinding, sanding of any concrete/granite/tiled surface/masonry.
Wood dusts	Caused by cutting, sanding, drilling wooden products treated Viz fencing poles.
Mineral turpentine	Applying paint and cleaning of paint brushes. Potential eye, nose, skin and respiratory irritant.
Paint	Splashes into eyes, onto skin causing irritation.
Cleaning materials	Use of disinfectants and sanitizers

5. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

5.1 Structure and Organization of H&S Responsibilities

An organogram will be available to identify key appointments and responsibilities on site and be kept up to date throughout the project.

5.1.1 Notification of Commencement of Construction Work

The PC shall notify the Provincial Director of the Department of Employment and Labour (DEL) in writing, in the form of the Annexure in the CRs. This shall occur within 7 days of the award of the contract. Proof of submission and/or receipt must be provided and kept in the H&S file.

Where changes to the conditions given in the submission are required (i.e. Contractors, completion dates, increase in workers), a revised Annexure A must be submitted to the DEL. The completion date is to include the defect and liability period. A copy of the notification form and any further submissions/correspondence must be kept in the H&S file.

6. HEALTH AND SAFETY PLAN FRAMEWORK

The H&S aspects related to the project outlined in the previous sections are to be taken into account when drawing up the H&S Plan. The PC is required to demonstrate competence by providing an H&S system that will address the requirements of the project.

The current legislative requirements, SABS codes, SANS 10400 and any other standards that may guide practice are to be taken into consideration. The following aspects must be addressed in the SSHSP, as they have been identified in section 2, as playing a role in reducing the overall risk of a particular activity, or section of the project. The OHS Agent may from time to time request additions or systems as they relate to the works or legislative requirements at the time.

The PC is to prepare a site layout drawing to indicate at least the following to submit with the H&S plan:

- The positions of site offices of all Contractors, toilets, drinking water and worker rest areas;
- Indicate the positions of emergency planning and equipment and first aiders;
- Protection of plant and public, indicate parking, designated vehicular routes and access to site;
- Storage areas (materials and equipment, waste etc.), and
- Storage of materials and waste;

Such layouts are to be updated regularly throughout the project.

Cognisance is to be given to those permanent employees who are over 60 years of age, and younger workers who have underlying chronic health issues such as high blood pressure, diabetes, TB, HIV and AIDS etc. Specialised workers who are indispensable will need to be declared fit for work by an occupational health service provider.

Key appointments and succession planning is to be available to ensure those who are playing key roles are able to cover the project at all times.

The project Organogram is to be updated accordingly and signed and dated at each update.

6.1 Appointment of Competent Site Personnel

The CEO (OHSA S16.1 or 16.2) of the PC will take overall responsibility for the appointment of competent site staff for the duration of the project. Should the CEO not be personally involved in the project, the H&S responsibilities are to be delegated to the Site Agent (OHSA 16.2). Knowledge and training in H&S are required and certificates indicating H&S training as well as experience to be included in CVs.

All other legal appointments are to be made with relevance to the type of work required and kept current with the project programme. The construction team is to ensure the appointed CHSO is kept up to date with all planned activities, to ensure all H&S requirements are met.

All construction/technical method statements are to be generated by senior site personnel, and the appropriate risk assessments developed therefrom in conjunction with the CHSO.

The SSHSP shall include the following, but is not limited to the following key appointments:

6.1.1 Construction Supervision

Competent supervisors will be appointed to manage part or all of the works and have training and/or experience in the area of responsibility, regarding CR 8.1, 8.2 and 8.7. All site supervisors must show evidence of appropriate training in H&S, and an understanding or training in areas of responsibility (i.e. risk assessments, method statements etc.).

Curriculum Vitae (CVs) are to be submitted for approval by the Principal Agent, and/or Client. The Supervisor will be held responsible for the safety of working teams and subordinates, housekeeping and stacking and storage of materials.

6.1.2 Construction Health and Safety Officer

The PC shall employ at least one competent, CHSO for the duration of the contract. The CHSO's CV is to be submitted for approval by the OHS Agent or the Client, at time of tender

The PC is to ensure adequate resources are provided in order to undertake all responsibilities (i.e. mobile phone, computer and internet access, etc.).

Qualifications shall include at least Grade 12, SAMTRAC/NEBOSH/Diploma in H&S qualifications or similar, with exposure to civil engineering and similar road construction, with at least 5 years' experience, given the level of project complexity preferably in an OHS capacity. He should also have undergone training in the Act and Regulations. In the case of a contract where contractors are employed, the CHSO must have a competence to evaluate the Contractors Health and Safety plans and be registered with the SACPCMP as a CHSO.

This person may not hold any other position on the site staff. The site supervisor may not act as the CHSO. The CHSO appointed for the project will be held responsible for all H&S on the project.

- Senior site staff and supervision, Contractors are to follow systems, instructions etc. given by the CHSO at all times;
- No new workers or Contractors may commence work without approval or following the SSHSP as submitted;
- No inductions of any Contractors' staff until the H&S documentation is approved by the CHSO, and
- The CHSO may not be removed or replaced without the approval of the H&S Agent, nor may the site be left unattended for more than 1 day without adequate, competent cover.

A monthly report of all H&S activities and incidents is required by the end of the first week of each month, or at a date agreed to by the OHS Consultant /Client and the CHSO. An example of the monthly report is attached as an Annexure D.

The CHSO will be responsible for collating the H&S documentation at the close out of the project in electronic format, properly labeled and filed. A list of the typical aspects that should be provided is available as Annexure B to this document. The PC is to ensure that all Contractors documentation follows the same requirements and closed out. H&S documentation must be completed and be available with the close out of the main contract, or as determined at the time.

Failure to do so will be considered a serious offence and penalties applied. Failure could also result in retentions or project certification not being issued to the PC.

6.1.3 Traffic Safety

The CHSO will be responsible for ensuring that daily traffic management is adequately managed.

No worker may be transported in, or on the rear of construction vehicles (bakkies included), or with plant and materials to, on, or from site. The number of passengers in any vehicle is limited to what is stated on the license disc. Vehicles used to transport workers to, from, or on site, shall have secure seats and be covered. No canopies may be used.

While this is difficult to control by the PC, induction training needs to include such information so workers can protect themselves. An on-site transportation policy needs to be available for how such transportation will be made safe and limit any opportunity for cross infection. Disinfection of vehicles needs to be determined where possible, and sanitizers provided prior to boarding and recommended during transit.

Each worker is to be encouraged to wear a cloth mask while travelling, and this needs to be enforced if using company transport.

Penalties will be issued for non-compliances noted.

6.1.4 Health and Safety Representatives and H&S meetings (if applicable)

H&S Representatives representing workers and Contractors are to be appointed following the start up of the project, irrespective of the number of workers on site. The appointed H&S Representatives are to be actively involved with H&S and will assist the CHSO and site management in meeting legislative duties.

All internal and external OHS Agent audits are to be discussed, as well as all H&S related issues at all internal production or progress meetings.

Failure to do so will be deemed to be a moderate offence.

6.1.5 Appointment of Competent Contractors and Suppliers, short term works (if applicable)

The PC is to ensure compliance with the Clients minimum standards and all legislative requirements. The same H&S standards required of the PC are to be applied to all Contractors. An index of all Contractors and Suppliers is to be on file and kept updated at all times. The PC is to ensure there is sufficient funding for H&S compliance by each Contractor.

The following minimum aspects are applicable to any Contractor appointed:

- The CHSO is to ensure a Contractors appointment and approval of H&S documentation at least seven (7) working days prior to commencing work;
- No Contractor may work under the PCs Compensation registration number. If required, the PC may assist SMMEs with their registration with the Compensation Commissioner (CC). However, such Contractors will not be able to commence work until proof of registration or Letter of Good Standing has been received, and
- No work may commence without Mandatary agreements between parties in place.

Suppliers or short-term works (surveying, repairs, servicing, deliveries etc.) also require H&S Management. Cognisance is to be taken of the level of risk involved and the CHSO is to ensure the level of H&S documentation is appropriate and appropriately managed.

Failure to provide written approval of H&S documentation will be considered a serious offense, and could result in aspects of, or all the activities being stopped, and penalties implemented.

7. GENERAL RISK MANAGEMENT

7.1 Health Risks and Medical Surveillance

The appropriate SDSs are to be obtained for all products and used to develop the H&S documentation as they relate to the works. Many of the processes are labour intensive and ergonomic risks are to be noted. All workers (including Contractors) are to be included in the medical surveillance programme.

Workers will be exposed to noise, dust, and physical risks from extended periods of work of a repetitive nature, materials specified and the general nature of the works.

All permanent workers (including those of Contractors) are required to be in possession of a medical certificate of fitness prior to arrival on site that must be less than 12 months old. An exit medical will be required where the project exceeds 6 months in duration. Arrangements for keeping medical records for the required time are to be noted. A procedure for managing the medical records which require safekeeping for prescribed periods are to be addressed, specifically for the asbestos exposed workers.

Given the potential health risks the following aspects are to be included in each medical surveillance intervention:

- Full medical, surgical and occupational history;
- Full physical examination of all systems, and
- Referral if required for the management of identified health issues that may affect the worker.

Specific testing for existing conditions and limitations relative to exposure could include, but are not limited to:

- Audiometry (hearing tests);
- Spirometry (lung function tests) are not to be done until deemed safe to do so, and
- Any other tests identified as relevant from chemical or specifically identified risks of exposure

Failure to do so will be considered a serious offence.

8. Training

Training of site personnel in H&S in the revised areas of work is required, mainly through induction between the Client and specific groups of employees. The CHSO is to determine training requirements and to report on needs or completed training in their reports and audits.

Records of all training, and acknowledgement of such training by attendees must be kept. Comprehensive records of all employees under the PCs control attending induction or any other training throughout the project shall be included. Amendments to statutes, the SSHSS, PSHSP, policies, procedures, method statements etc. shall require that all those affected shall undergo the relevant re-training.

8.1 Site Induction and other training

The PCs shall ensure that all employees, and contractors have undergone the induction programme for visitors or contractors, or any other that is deemed necessary.

Appropriate time must be set-aside for training (induction and other) for all employees. No person will be able to commence work or visit the site where the induction has not been done.

All employees and visitors on site from either the Client or the PC shall carry the proof of induction training in form of an induction card. Client Induction is valid for a year from the date it was conducted and thereafter refresher induction shall be re-scheduled at least one month before the induction period expires.

Both parties shall keep a database of all records pertaining to induction and will inform Contractors of pending expiry though the overall responsibility of maintaining current induction cards still lies with the principal contractor. All induction cards issued must be returned on completion of the project to the Issuer.

Toolbox talks to be conducted outdoors when possible in order for persons to maintain social distancing. Where inclement weather does not allow for this, toolbox talks to be conducted with smaller groupings of workers in a sheltered area large enough to maintain social distancing.

8.2 Noise Risks

All plant from plant hire companies (suppliers) or that of the PC is to come to site with the appropriate testing completed and be compliant with the Noise Induced Hearing Loss Regulations. Plant identified that has not been tested and marked for noise emissions will result in having to be tested or removed from site. Failure to do so within a reasonable time period will result in such plant being removed from site.

Suitable SANS approved hearing protective equipment shall be issued and worn where noise levels are identified as equal to or greater than 85 dB.

8.3 Asbestos Work

Only a registered asbestos contractor may do work which entails asbestos material. An Approved Inspection Authority must be consulted and Asbestos regulations complied to.

Failure to do so will be considered a serious offence.

9. Emergency Procedures

A simple emergency plan and procedure that is appropriate to the risks is required prior to commencement on site. It is advised that the system should be simple and easy for any worker to follow. The plan may be adapted should new information or risks are identified.

The procedure shall detail the response plan in relation to the works, and include at least (but are not limited to) the following key elements:

Appointment of a competent emergency response co-ordinator

- Fire, public injury, asbestos;
- Falls from heights;

- Serious injury to workers (medical or work-related), and
- Any other major risks identified during risk assessments

The emergency plan is to ensure the inclusion of local service providers. Such arrangements should be made with these persons prior to the commencement of the project. The general principals of emergency management are to be applied as it applies to the hierarchy of control and management.

9.1 Fire, First Aiders and First Aid Equipment

At least 1 first aider will be trained to level 1. First aiders shall be available and accessible on site at all times and be able to work as a team when responding to any emergency on the project. The number of First aiders will be determined by the complexity and exposed risks of the project, not numbers of workers.

Contractors are expected to ensure compliance and provide/manage their own first aiders and equipment. Appropriately stocked first aid kits are to be available at all times and to assure continual availability and access on site.

Fire extinguishers will be appropriate for the risk and in sufficient numbers to deal with the type of fires that could occur. All mobile plant is to have fire extinguishers. Hot work permits are required for any such activities.

Failure to comply with emergency provisions will be considered a serious offence, and the operation or project may be stopped if deemed inadequate for the work at the time of assessment or site inspection.

9.2 Incident Management and Compensation Claims

All incidents and accidents are to be investigated. All serious incidents involving any form of disabling injury or fatality are to be reported to the Principal Agent/Client /OHS Agent immediately. This shall be confirmed in writing following the incident. Full details are to be included in each site meeting or when the Client visits site. A summary of incidents is to be included in the monthly report.

Failure to comply with emergency provisions will be considered a serious offence, and the operation or project may be stopped if deemed inadequate for the work at the time of assessment or site inspection.

10. Personal Protective Equipment (PPE) and Clothing

The PC is to provide a procedure as an addendum to indicate how PPE is managed within the Company. The wearing of the identified SANS approved PPE at all times is non-negotiable and is to be linked to the risk assessments. The PC shall ensure that all workers (Including Contractors) are issued with and shall wear:

- Hard hats;
- Protective footwear;
- Eye protection;
- Hearing protection;
- Reflective jackets (no bibs);
- At least 3 cloth masks (for general wear);
- Respiratory protection (minimum of FFP2) or as deemed required by the AIA, and
- Any other necessary PPE identified from SDSs and/or risk assessments.

Adequate quantities of PPE shall be available. This shall include necessary PPE for visitors. The procedures for managing PPE are to be in a formal procedure submitted with the SSHSP for approval.

Any person (including Client, Agents, etc.) found on site without the necessary PPE will be removed from site until the PPE is supplied and worn.

Failure to comply will result in penalties being applied.

11. Occupational Health and Safety Signage

On-site H&S signage is required as well as standard H&S information. Signage shall be posted up at fixed or temporary working areas, or other potential risk areas/operations. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended. Signage is to be noted on the site drawings indicating where fixed/temporary signage is required and appropriate to the risks identified in risk assessments.

Signs shall be posted at areas of work on site indicating that a construction site is being entered and that persons should take note of H&S requirements.

Failure to comply will result in penalties being applied.

12. Induction of Employees and Visitors, General H&S Training

A simple, formal induction programme is to be submitted as an addendum for approval with the H&S plan. Inductions must be carried out for all workers and visitors (including Client, Designers) to the site.

Daily, pre-task training is required to ensure workers are familiar with the risks and H&S measures of the work or tasks to be done. Records to be kept in the H&S file.

Any person found on site without proof of induction will be removed from site until the proof is supplied and, and a **penalty issued per non-compliance.**

13. Management of Plant and Equipment

The CHSO will ensure control of all plant and equipment, including daily monitoring, prior to commencing work. Full lists of hired and own plant are to be available at the OHS Consultant /Client audit. All daily inspection records are to be kept in the H&S file, or Contractors where plant and equipment is brought onto site. Registers are not to be more than 1 week behind.

Only competent, fit plant operators are to be used. Medical certificates of fitness are required for all operators.

Any plant or slings used to lift plant or material require annual load testing by an AIA, and all certificates must have the testers LMI/E number. Operators are to be adequately trained and certified to operate mobile cranes or crane trucks. Certificates and registers are to be placed in the H&S file.

Failure to do so will be considered a serious offence.

14. Excavations (if applicable)

A procedure for managing excavations is to be provided as an addendum to the SSHSP describing how excavations are to be managed.

A competent person is to be appointed for managing all excavations. A permit system is to be available and used for all excavations. All equipment and ground conditions to be checked daily, and prior to work commencing.

Excavations should preferably not be open beyond what can be closed daily. Where excavations need to remain open, all excavations are to be properly protected. Adequate stakes with 1m high demarcation and berms/spoil are required to be a safe distance from the edge of the angle of repose. Candy tape may not be used to demarcate excavations. Cognisance is required of the surrounding area and increased levels of protection are required where work is in communities, near schools and clinics or churches.

Work will be stopped, and penalties applied to any work in excavations that is not compliant.

15. Working at heights (if applicable)

A fall protection plan is to be available and supplied as an addendum to the H&S plan. The fall protection plan must be appropriate for the project. Proof of competency must be on file for the Fall Protection Plan Developer and the appointment of a Fall Protection Supervisor with competency to be on file. Method statements, appropriate risk assessments, safe work procedures and training (all employees are to be in possession of a valid working at heights certification) are to be available prior to work commencing.

The focus for working at height shall include fall restraint systems where possible except during assembling or dismantling top components or where it is not deemed safe. The relevant SANS codes are to be applied as they apply to the works and the project, such as:

- SANS 10085
- SANS 10333 (parts 1-3)

Should part of the works be contracted out, competent Contractors are to be appointed and submit documentation according to the project requirements. The PC is to note if such work is to be contracted to specialists in the H&S Plan. the plan is to be developed and work managed by a competent person for the duration of the project. The following aspects must be included:

- The public or users of buildings are to be protected at all times by way of hoarding, barricading or fencing
- Notices to be posted
- Restrictions or stoppage when weather conditions are deemed hazardous
- Permit system for working at heights
- Prevention of falling tools or equipment
- Link to emergency plan regarding rescue

All workers are to be in possession of valid certificates of fitness that extend for the duration of the works. Note the requirements in the section relating to medical surveillance.

Registers and all relevant documentation are to be placed in the H&S file.

Work will be stopped, and penalties applied to any work at heights that is not compliant.

16. Cranes and lifting equipment (if applicable)

Lifting devices such as mobile cranes might be used during the project for deliveries, and moving of supplies or equipment,

Appropriate documentation must be made available for the cranes and operators. Method statements, risk assessments, safe work procedures and training are to be available prior to work commencing. A procedure for managing loads and lifting must be made available as an addendum to the H&S Plan.

Chains, slings and webbing to have valid safe working load certification on file, should the documentation not be on site, the operation may be stopped, and fines imposed until such documentation may be delivered.

17. Temporary Works (Scaffolding, support work, formwork) (if applicable)

Temporary works must be properly designed and signed off by the PCs competent person for all temporary scaffolds, support work or formwork. In these instances, a competent person is defined as one who has sufficient experience in the design of the type of temporary work in question to be able to assess the design. The appropriate competent persons are to be appointed to manage and monitor such works to the satisfaction of the Engineer and OHS Agent. Records and registers are to be properly completed and kept in the H&S file. If temporary works are to be erected by a Contractor, this must be notified to the Principal Agent/OHS Agent.

Failure to do so will be considered a serious offence.

18. Auditing

Frequency of external auditing by the OHS Agent or Client will be bi-monthly to conform to the requirements of the Construction Regulations. The site will be inspected, and the documentation audited relative to the activities and H&S plan. The CHSO of the PC must accompany the Client, or the H&S Agent, on all audits and inspections.

The PC will ensure that all their Contractors are audited on a monthly basis, dependent upon the time to be spent on the site. Audit frequency may be increased if Contractors are not performing adequately. Audit results will be acted upon and non-conformances and penalties issued where deemed appropriate. The Client, Designer or OHS Agent may act or require further outcomes if non-compliances are noted or unsafe acts are noted on site.

Internal audits are to include site conditions as well as ensuring H&S files are appropriate, and compliant. Comprehensive audit reports are to be made available the format of the audit reports will be reviewed by the H&S Agent.

The PC will be audited using a template as supplied in the tender document. The audit template will be adjusted from time to time relative to the activities on site. A similar process is to be used by the PC when auditing their Contractors on site. Compliance with legislative requirements and the systems provided by the PC to manage the H&S on site will be measured. Full compliance is required. Time limits for corrective actions will be set and must be adhered to.

Failure to address findings or non-conformances will be considered a serious offence.

19. Communication and Meetings on Site

All H&S communication during the project between the OHS Consultant and the PC will be done through the Principal Agent and be in writing, including the issue and responses to non-conformances and H&S audit results.

Failure to address issues timeously will be considered a serious offence.

20. Care of Workers on Site (Welfare)

Adequate toilets, clean, safe drinking water and weather protected shelter will be afforded workers at all times. Toilets will be within reasonable distance of workers, or placed with each working team in safe, with reasonable privacy.

Hand washing facilities, disinfectants and sanitizers will be provided across the site at common areas and entrances to work areas.

Failure to ensure compliance will be considered a serious offence, work will be stopped if con-conformances noted until corrected.

21. HEALTH AND SAFETY FILE

The documentation submitted and approved following the awarding of the contract will be used to form the H&S file. The H&S file is required to be laid out in a logical manner, and documentation filed within the file is to be easily accessible.

The following completed information shall be included (but not be limited to) as part of the index:

- The SSHSS;
- The SSHSP and the approval by Client;
- Appointment by Client;
- Mandatory agreement with Client;
- Notification of construction work;
- A record of all working drawings, calculations and design where applicable;
- Detailed list of Contractors with contact details, appointments, Mandatories etc., H&S specifications issued;
- Record of Competencies (CVs) and appointments;
- Training Records;
- Permits;
- Method statements;
- Risk assessments;
- Safe work procedures;
- Emergency and injury management;
- Safety data sheets
- Medical surveillance records;
- Registers;
- Records of audits, minutes etc.;
- Plant lists;
- Temporary electrical installations, and
- Employee records (who is on site).

22. NON-CONFORMANCES

Should, at any time, the works, or part of the works, be stopped due to unsafe acts or non-compliance with the Clients or PCs H&S Plan; neither the PC nor any other Contractor shall have a claim for extension of time or any other compensation.

The following constitute examples of the types of non-conformances that will attract penalties:

Minor: Penalty: R50/count	Medium: Penalty: R500/count and a non-conformance	Severe Penalty: R5000/count, a non-conformance and/or activity stoppage
Non-use of PPE supplied	Toilets not supplied or regularly serviced; lack of drinking water	Contractors working without Health and Safety Plan approval
Non-completion of registers for plant and equipment on site	Contractors not audited	Workers transported in contravention of the OHS plan or legal requirements
Lack of H&S signage at work areas	Working without training or the appropriate, approved H&S method statements	Invalid Letters of Good Standing
Tools and equipment identified in poor condition during inspections	Legal non-conformances identified during the previous audit and not addressed within the agreed time frame	Non-compliance with traffic accommodation requirements: layout or physical conditions
	No monthly OHS report at site meeting to report on	Any serious breach of legal requirements
	No certificates of fitness for workers as required	
	Working without approved method statements	

23. Failure to Comply with Provisions

Failure or refusal on the part of the PC or their Contractors to take the necessary steps to ensure the safety of workers and the general public in accordance with these specifications or as required by statutory authorities or ordered by the engineer, shall be sufficient cause for the engineer to apply penalties as follows:

- (i) A penalty as shown in the Table above shall be deducted for each and every occurrence of non-compliance with any of the requirements of the SSHSS,
- (ii) In addition, a time-related penalty of R500,00 per hour over and above the fixed penalty may be deducted for non-compliance to rectify any non-conformance within the allowable time after a site instruction to this effect has been given by the Designer. The site instruction shall state the agreed time, which shall be the time in hours for reinstatement of the defects. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.

24. Public safety

The Principal Contractor shall ensure at all times that staff, and general public are aware of the dangers and risks involved whilst construction is taking place.

- Safety signage / posters shall be posted at all areas where construction work is taking place;
- Edges, excavations, stockpile areas, material storage areas, will be demarcated and no entry signage appended;
- Safety talks with employees shall be done, all employees shall be involved in keeping the site safe;
- CLO shall be given talks to do with the community members who are directly involved;
- A record of all training shall be kept, and indemnity documents shall be signed by those attending the safety talks.
- Community unrest shall be handled by the local SAPS. CLO shall assist the Contractor should the need arise.

- No visitors to site are allowed unless proper arrangements are made.

ANNEXURE A

CLOSE OUT REQUIREMENTS

The H&S files for the Principal Contractors and all Contractors require closure and handover to the Client at the completion of the project. The following list is an example of what should be included but is not exhaustive. The OHS Consultant or the Client may require further information at the time of completion and the Principal Contractor is to ensure that all instructions are met. Documentation would include all records from the start of the project. Daily or monthly plant inspection records are not required unless they are related to an accident. All records to be in electronic format and submitted to the OHS agent for approval in adequately formatted lists and folders. Layout should be logical and in the same order as in the site files.

Health and Safety close out file requirements include:

- a) Client H&S Specification
- b) Principal Contractor's OHS Plan(s)
- c) Organograms
- d) Legal Appointments
- e) List of all employees employed on a permanent or contractual basis over the duration of the contract
- f) Notification to Department of Labour of commencement of work
- g) Letters of Good Standing for the Project
- h) Full files for all Contractors as well as their close out reports
 - List of Contractors
 - All employees employed on a permanent or contractual basis over the duration of the contract
 - Letters of Approval of Contractors
 - Mandatary Agreements
 - Letters of Good Standing
 - Appointments
- i) Incident Records
- j) Non- Conformance records
- k) Agent's Audits
- l) Method Statements
- m) Risk assessments
- n) Safe work procedures
- o) Medical surveillance certificates of fitness. Medical records are to be kept according to the OH&S Act as amended
- p) All drawings for temporary structures (suspended beams/scaffolds etc.)
- q) All operating manuals for any systems that require ongoing maintenance
- r) Copies of test results, policies and procedures for environmental monitoring (silica, noise, dusts etc.)

Defect and Liability Period

The H&S files are to be kept 'live' for the defect and liability period by the Principal Contractor, including those of their Contractors. Any work required during the defect and liability period will require an assessment of the H&S file by the OHS Consultant to any work commencing.

A copy drawing records for the as-builts are to be placed on file by the Designers once complete



CLIENT: ECDoE

PROJECT: DoE Small Projects

COMPILED BY: Ntokozo Ngwenya

REVISION: 00

	HAZARD	RISK	MINIMUM CONTROL MEASURES
1.	Electrical commission	Electrical shock	- Personnel to comply with permits to work issued by client. - Personal protective equipment to be worn by employees to prevent electrical shock. - First aid treatment to be readily available. - Only competent and trained persons may decommission or commission electrical equipment.
2.	Excavations (working in and around	Toxic fumes Collapse of trench walls/trapping Falling into excavation Collapse of adjacent structures	- Deep excavation/ Monitor air for toxic fumes. - Prevent collapse by battering back sides to safe angle or install temporary support. - Protect vehicles from falling into excavations, provide barriers, signage, etc. as necessary. - Beware of undermining of other structures (e.g. building , scaffolds). - Record excavations inspections by competent person on daily basis. - Provide suitable means of access/egress in case of emergency. - Excavations formed by explosives must be accompanied by method statement approved by client.
3.	Explosive actuated fastening devices	Noise Being stuck by cartridge or fixing	- Operators to be trained, competent and wear appropriate protective equipment, e.g. goggles, gloves, ear plugs and head protection. - Cartridge gun to be in good condition, inspected for damages and faults regularly and results entered register. - Used and unused cartridges gun should be kept in a secure place when not in use, maintain register for return and issue.
4.	Explosive use	Injuries to personnel and by-passers Property damage	- Blaster must have all relevant permits, permission and licenses in place before blasting.



CLIENT: ECDoe

PROJECT: DoE Small Projects

COMPILED BY: Ntokozo Ngwenya

REVISION: 00

			- Method statement must be approved. - Maintain exclusion zone around perimeter of blasting, warn persons away, erect warning signage and barriers. - Obtain permission from local authority and police. - Blaster must be competent in blasting. - Ensure blasting does not affect stability of adjacent structures/building.
5.	Fire	Injuries to workers, pedestrians, residents, road users, damage to property through fire.	- No littering on site which could become a fire hazard, maintain site in clean condition. - No fires to be lit on site, have a working fire extinguisher at hand all times. - No smoking or naked flames near flammable substances or in unauthorised areas. - Ensure proper storage/use of petrol/diesel/flammable substances, post warning notices
6.	Flammable liquids	Fire Explosion	- No littering on site which could become a fire hazard, maintain site in clean condition - Have a working fire extinguisher at all times.
7.	Asbestos Cement pipes	Release of asbestos fibres	- Ensure safe access and egress is provided. - Erect physical barriers to prevent entry by unauthorised persons, as applicable. - Damp down exposed area to contain fibre release. - Personnel involved to wear asbestos respiratory protection. - Only Department of Labour registered asbestos contractors may work with asbestos, and strictly in accordance with the requirements of the Asbestos Regulations.



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8.	Asbestos Cement removal	Person falling from height Debris falling from height Falling of equipment or tools Release of asbestos fibres	- Notice to be erected informing personnel of fragile roofs, as applicable. - Ensure of safe access and egress in provided. - Erect physical barriers to prevent entry by unauthorised persons and falls from heights, as applicable. - Roof sheets to be sprayed with water to prevent fibre release, where feasible. - Take extreme care to remove sheets whole. Where breakage occurs damp down exposed area to contain fibre release. - Personnel involved to wear respiratory protection. - Exclusive zone may be required under area of sheet removal to prevent injury from falls of material from heights. - Only Department of Labour registered asbestos contractors may work with asbestos, and strictly in accordance with the requirements of the Asbestos Regulations.
9.	Asphalting	Fire Burns to skin Skin disease	- Suitable fire extinguisher to be place prior to commence of works - Ensure competent personnel using material and competent and trained machinery/equipment operators. - Ensure there is a safe workplace at all time. - Ensure all personnel wear sufficient personal protective equipment (PPE) including safety boots, reflective vests and gloves. - Health and safety data sheet required.
10.	Bricklaying	Caustic contamination with mortar Contact with sharp blade tools	- Use only trained personnel. - Safe means of access to be provided.



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			- Safe/suitable working platform required where working at height. - PPE for mortar to include gloves where practical and goggles/ masks where there is a risk of contamination
11.	Brush cutting	Injury from contact with blade/nylon Fire (where petrol used) Electrocution (where electrical tools are used)	- Person using brush cutter must be trained and competent. - Use PPE such as goggles, safety boots, ear protection, gloves, hard hat. - Brush cutter must be in good condition and maintained. - Adequate supervision on site at all times. - No smoking when refuelling, fire extinguisher to be on hand (where petrol is used)
12.	Chainsaw use	Falling tree or branches causing injury to persons Incorrect use of chainsaw causing injury	- Person using chainsaw must be trained and competent - Use PPE such as goggles, safety boots, ear protection, gloves, hard hat, chainsaw trousers and jackets. - Chainsaw must be in good condition including guards. - Clear area below area of chainsaw use and where tree felling.' - When using chainsaw at height practise safety procedures
13.	Plumbing	Falling material Fall from height Fire Burns Exposure to lead flames	- Ensure standard safety procedures are followed at all times - Only used trained and competent personnel - Ensure there is a safe working area at all times. - Ensure material are stored neatly - Ensure there is a safe access and egress at all times. - Ensure all personnel wear suitable and sufficient PPE. - Consider a hot works permit system prior to commencing of any hot works. - Make sure emergency procedures are in place and ensure all



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			personnel are aware of where to go in case of fire.
14.	Plastering	Falling material Fall from height Contact with materials	- Ensure standard safety procedures are followed. - Ensure there is a safe working area. - Ensure safe access and egress. - Ensure competent personnel are used.
15.	Plant or vehicles and equipment operation	Workers injured by passing traffic Road users and pedestrians at risk from plant operation Noise	- Implement traffic protection measures. - Trained and competent operators must be used. - Check plant and vehicles on daily basis before use and record inspections. Maintain vehicles in safe condition. - Medical certificates of fitness required for construction plant. - Crossing of road by construction vehicles or machines must be limited to the practical minimum. - Plant and vehicles must be fitted with amber rotating beacons and reverse alarms. - Wear appropriate PPE
16.	Pilling	Falls Struck by machine Exposure to noise	- Personnel to be trained and competent, pilling rig to be in safe condition and inspected on a daily basis on a register by competent personnel. - Empty pilling holes not to be left unguarded. - Only approach pilling plant on signal from operator. - Personnel to wear PPE such as ear plugs.
17	Paving (laying)	Impact injuries from tile/ mallet Caustic burns Sore knees Cuts from cutter	- Impervious gloves to be worn/ barrier cream to be used - Kneelers or similar to be available. - Personal protective equipment to be worn.
18	Painting	Contact with paint	- Refer to safety data sheet for usage instructions, hazards and precautions required.



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			- When working at height, refer to risk assessment addressing this hazard.
19	Overhead services (Working near)	Contact with live services causing injury to personnel Damage caused to services	- Maintain safe clearance levels. - Establish presence of any services via proper walk through survey of site and/ or means service drawings. - Wear personal protective clothing. - Ensure height of plant/ vehicles does not compromise or exceed clearance levels from service provider.
20	Noise and Dust	Breathing in dust can cause long term health problems, noise can damage hearing	- Wear respiratory and hearing protection. - Dampen down and minimise dust where possible.
21	Night work	Security Lighting	- The contractor shall not undertake any night work without prior arrangement and written permit from the client. - The contractor shall ensure that adequate lighting is provided for all night work and failure to do so shall result in work being stopped
22	Compacting and filling	Contact with tipping materials Contact with moving plant Vehicles/personnel falling into excavations Contact with underground services	- Trained banks man to control vehicle movement - Only trained personnel to use plant - Personnel to stand clear as materials are being tipped - Use stop blocks and signs to warn vehicles of excavations, where applicable - Stand clear of plant whilst material is being compacted - Establish position of underground services and protect services from damage.
23	Concrete pumping	Sprains and strains Hit by pump Concrete burns Collapse/bursting of structure	- Personnel to be in clear vision of pump operator - Trained pump operator - Personnel working with the concrete to wear the appropriate equipment to protect against cement burns



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			- Design of structure being loaded to be approved by competent designer and inspect before, during and after loading. - Pump to be well maintained
24	Compactor operations	Crush of feet	- Only trained and competent personnel to use the machine - Ensure operators wear steel toe caps shoes or boots at all times
25	Confined spaces	Suffocating Fumes	- Ensure that confined spaces is sufficiently ventilated - Wear personal protective equipment such as proper masks if air supply insufficient or not of sufficient quality. - Test oxygen levels in confined space to ensure that is safe for entry - Ensure that emergency procedures are in place
26	Cutting Kerbs	Saw slipping, blade disintegrating	- Only trained operators to use saw and change blades. - PPE must be worn, gloves, goggles, dust mask and hearing protection. - People to be kept away from the work area. - Work to cease if people have to pass - Sparks etc. To be directed away from people and any flammable material.
27	Cutting Off Disc	Noise Cuts from machine Fire (particularly at refuelling) Flying debris Blade shattering Contamination by fume created or exhaust fume	- Use competent personnel - Hot works control, fire extinguisher, fire watch man. (permit may be required). - PPE to include gloves, eye protection, hearing protection. - Solid working position - Clear working area - Correct grade of blade must be used - Good ventilation to be provided (Forced if necessary) - Changing of wheels to be by competent persons only



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			- Cutting discs must not be used for grinding (grinding disc thicker). - Bystanders to wear hearing protection, as applicable.
28	Demolition	Falling materials premature collapse of structure	- Ensure there is current method statement in place - Ensure all emergency procedures are in place and all details are displayed. - Ensure that structural demolition has been approved by designer and site management
29	Kerb Laying	Nips at joints Crushing by kerbs Caustic burns	- Impervious gloves and barrier cream to be used to protect hands. - Personnel should be aware of safe manual handling techniques when handling kerbs.
30	Lead – working with removal of tiles	Toxic effects from exposure to lead and its compounds Risk of inhalation, ingestion and absorption Personnel falling from height Debris falling from height	- Demarcation of the workplace - Restriction of entry by unauthorised persons - Restriction of substances that can release airborne lead to certain areas - Limit number of workers exposed to lead - Regular cleaning of workplaces and equipment - All employees who are exposed to lead must be provided with suitable and adequate PPE - Lead is to be packed in impermeable containers that are tightly sealed and clearly marked for removal. - The need for medical surveillance and the nature thereof is to be based on both risk assessment and air monitoring results and safety legislations.
31	Lifting Operations	Falling material Crushing by material Hand injuries to the slinger Toppling crane	- Check test certificate - Check examination certificate - Check inspection have been carried out



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			- Check certificates for lifting equipment (chains, slings, shackles, etc.)
32	Fragile Materials	Person or items falling through fragile materials	- All fragile materials to be identified and protected prior to work commencing. - Protection to include either covering the fragile materials or excluding activity. - Any coverings to be secured in place - The location of the fragile materials to be indicated by signage
33	Hand tools	Injuries caused by use of hand tool Impact with the tool Falls due to access problems Contamination with substance being worked	- Ensure: - Tool is correct for the job - Tool is in good order and suitably sharp - Personnel must be competent/instructed in tool usage and tool safety - Lighting is sufficient - Access is safe, working platform is secure, leading edge is guarded - Operative is wearing all necessary PPE
34	Hazardous Substances	Injuries to workers through use of hazardous substances, e.g. injuries to eyes, skin, etc..	- Use substances in accordance with the safety data sheet particularly reference protective clothing required. (example: gloves, goggles, etc.) - Know what first aid measures are. - Have welfare facilities available for washing of hands, etc..
35	Hot Works	Burns to eyes or other parts of the body	- PPE to include eye protection, kin and ear protection. - Respirator maybe be required where cutting galvanized steel or anywhere else toxic fumes and gases arise. - Dust can also be a problem and forced ventilation may be required
36	Mobile Crane Erection & Dismantling and Use	Collapse of structure Overturning structure Falling Materials	- Ensure emergency procedures are in place and all operative are aware of the details



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			- Only used trained and competent operators for the erection and dismantling and use of cranes - Ensure crane driver is trained and hold certification as proof. Must have a valid medical fitness certificate - Ensure crane is 360 degrees vision if not ensure a fully trained banks man is available at all times. - Banksman to wear reflector vest to identify him/herself to the crane driver - Ensure all personnel wear suitable and sufficient PPE - Consider creating an exclusion area
37	Members of the public – Protection Of	Injury to the member of the public and road users from site works	- Barriers and signage to be in place - Workers must warn away members of the public from the works - Footpaths and bridges which are open to the public must be closed off if in the area of works otherwise made safe so that no injury to a member of the public occurs - Traffic turning into site – traffic management and signage is required - Signage to be on the road at site entrance warning motorists that construction traffic turning into/out of site access. Keep roads free of mud where possible - Refer to plant risk assessment for details on plant safety precautions - NOTE: SIGNAGE TO BE POSTED ON SITE TO WARN OF CONSTRUCTION MOVEMENTS. SAFE MEANS OF ACCESS FOR BOTH CONSTRUCTION TRAFFIC TO SITE AND PROVATE HOMEOWNERS MUST BE AGREED
38	Manhole Rings & Pipe Storage	Rolling of rings Collapse of pipes Crushing of persons Stockpile collapse	- Manhole rings must be stored flat to prevent them being rolled - Banks of stock pipes are not to be broken until they are ready to be used



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			- Personnel must stand to the side when breaking bands so as not to be hit by falling pipes - Pipes must be wedged to prevent rolling
39	Temporary Works – Shoring, Scaffolding, falsework, formwork	Collapse of works	- Wear PPE such as gloves and goggles - Formwork must be built by trained person and also be inspected by competent person and results entered into register on site/
40	Tower (Mobile Aluminium Tower) Scaffold	Overturning Falls	- Tower to be on firm level ground with wheels or feet properly supported - Erection by competent person - Inspection before first use - Weekly record of inspection required - Guard rails and toe boards as per normal scaffold - Beware when moving of overhead obstructions, such as power lines - Never move in strong winds
41	Underground Services	Striking of buried services	- Make all necessary enquiries to establish what services are in the area - Assume all services to be live (unless confirmation is received to confirm that services are isolated or otherwise made safe. - Comply with requirements of the safe system of work for underground services - Where available locate services with a locator - Hand dig around services
42	Working at height	Personnel falling from height Falling debris Those beneath being injured	- All access equipment is properly constructed (inspection record must be maintained) - Only trained personnel construct, dismantle or control access equipment - All equipment must have full toe boards and guard rails, Comply



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			with SANS10085 on erection, use and dismantling scaffolding - No access equipment to be loaded above its safe working load - No access equipment to be loaded above the level of the guardrail - Where working involves leaning out an open leading edge, then all personnel are to be fitted with a full body harness. The harness must be connected at all times - All fall arrest equipment to be correctly maintained - Ensure if ladders used for access, they are either footed or tied.
43	Precast slab/ Unit laying and fixing	Falls Falling material Manual handling	- Emergency procedures are in place and personnel explained details - Use competent personnel - Ensure suitable and sufficient access and egress is provided - Safe place of work must be provided - Ensure all personnel wear correct PPE - Exclusion zone may be required for protection against risk of falling objects
44	Road Construction	Risk of being struck by vehicles	- Ensure traffic management measures in place - No construction activities to commence until adequate provision made to accommodate traffic in accordance with the South African road signs manual - Wear reflective waist coats when working on or near the road and road shoulder as well as any other required PPE clothing - Crossing of road by personnel must be limited to the practical minimum - Use of fencing or other barriers as appropriate.
45	Road Marking	Contact with moving vehicles	- Ensure suitable and sufficient road signs are erected, as applicable



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		Fire	- Possible road or lane closure may be required, traffic management may be required - Fire extinguisher to be situated in a suitable area, use dry powder or foam
46	Rope Access	Personnel falling from Height Falling debris Those beneath being injured	- Ensure: - Competent person is appointed in writing to supervise all rope access on the site - Compliance with Construction regulations particularly section 10 & 18 - All rope access work is carried out under supervision of a competent person - All rope access operators are competent and licensed to carry out their work - The design, selection and use of the equipment and anchors comply with safety standards incorporated for this purpose into these regulations under section 44 of the act. - Site specific fall protection plan must be developed by a competent person applicable to the specific work and environment prior to the commencement of the work including all records of maintenance and inspections of all equipment used for the work operations
47	Steel fixing	Back injuries caused by manual handling Eye injuries from tie wire Trips/Falls Falling from height	- PPE must include safety boots and goggles - Manual handling training may be required - Care to be taken when near overhead lines - Use only trained personnel - Provide safe means of access - Maintain and regularly inspect all lifting appliances and equipment



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			- Cap starter bars to prevent injuries where feasible - Construct scaffold walkway to cross reinforcing mesh, as required
48	Steel erection	Falls from height Falling components Contact injuries from falling lifting equipment	- Adhere to all general precautions for working at height - Barrier off/ exclude area below work - All lifting appliances to be examined and inspected - Inspection register in place and up to date - All personnel to be trained and competent wear clipped on safety harnessed when working on height - Ensure that lifting equipment (slings, chains and shackles) test certificates are current and on site - Competent persons only to connect loads and direct plant
49	Work over or next to water	Drowning	- Evaluate the depth of water, height above water that work takes place, whether workers can swim or not and then determine safety precautions required: these may include such measures such as barriers, signage, life belts, safety harness etc. - When working on river/harbour/dam edge, erect life saving devices and barriers to protect workers and vehicles (Stop blocks may also be required). Only trained and competent personnel may be used
50	Scaffold Erection/Dismantling	Personnel falling from height Items of scaffold falling onto personnel Scaffold collapsing onto those below	- Ensure: - Scaffold is designed to take the imposed load - Scaffold is not overloaded - Scaffolders are fully trained - Scaffolding is regularly checked by competent person and record of inspection retained. Written inspections to be recorded on weekly basis.



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[illegible]

AGREEMENT WITH MANDATARY

WRITTEN AGREEMENT ENTERED INTO AND BETWEEN

(Hereinafter referred to as the Employer)

and

(Hereinafter referred to as The Employee)

Compensation Fund
Number:

Whereas the Company called under contract no. _____ for the executing of the following

At _____ (“Premises”)

and whereas the contractor _____

Undertook to carry out the work and whereas the client contractor have agreed to regulate as between them and as provided for in terms of section 37(2) of the Occupational Health and Safety Act, No 85 of 1993, now therefore the undersigned agree to:

1. The Contractor warrants that all his and his contractors’ employees are covered in terms of the provisions of the Compensation for Occupational Injuries and Diseases Act 1993 (the Act) which cover shall remain in force whilst any such employees are on the premises.
2. The Contractor warrants that he is in possession of the following insurance cover which shall remain in force whilst he and/or his Contractor and/or his employees are present on the premises or which shall remain in force for the duration of his contractual relationship with the client whichever period is the longest:
 - Public liability insurance covers.
 - Any other insurance cover that will adequately make provision for any possible losses and/or claims arising from his and/or his contractors and/or his Employees’ acts and/or omissions on the premises.
3. The Contractor undertakes to ensure that he and/or his contractors and/or their respective employees will at all times comply with all the requirements of the Act and without derogating from this general undertaking, also comply with the following conditions:
 - All work performed on the premises must be performed under the close supervision of the contractor’s employees who are trained to understand the hazards associated with any work that the contractor performs on the stated premises.
 - The Contractor shall assume the responsibility in terms of Section 16(1) of the Act. If the Contractor delegates any duty in terms of Section 16(2), a copy of such written delegation shall immediately be forwarded to the Client.
 - The Contractor shall ensure that he familiarize himself with the requirements of the Act, and that he, his employees and any Contractor comply with them.
 - The Contractor shall conduct a hazard analysis and ensure that his and any contractor employees are made aware of the hazards identified. This analysis needs to be reviewed prior to a new tasks are commenced.

The Contractor must provide the Client with written proof that his employees and those of the sub contractor have been made aware of the hazards identified. The Contractor must provide the Client with up dated copies of the analysis.

- Discipline regarding Occupational Health and Safety shall be strictly enforced.
- Personal Protective Equipment as defined in the Act and regulations shall be issued free of charge by the Contractor and worn as prescribed.
- Safe work practices shall be enforced and all employees shall be made conversant with the contents of these practices.
- No unsafe equipment/machinery and/or articles will be allows and/or used on the premises.
- All incidents referred to in Section 24 of the Act shall be reported by the Contractor to the Department of Labour as well as to the client. The Client shall further be provided with copies of all documentation relating to any incident.
- The Client hereby obtains an interest in the issue of any formal inquiry conducted in terms of Section 32 of the Act into any incident involving a Contractor and/or his employees and/or his Contractor.
- No use shall be made of any machinery/article/substance/personal protective equipment that belongs to the Client without prior written approval.
- Work for which the issuing of a permit is required shall not be performed prior to the obtaining of a duly completed and approved permit.

- No alcohol or other intoxicating substance shall be allowed on the premises. Anyone found to be or suspected of being under the influence of alcohol or any other intoxicating substance shall be removed from the premises.
 - Full participation shall be given if and when Client employees inquire into Occupational Health and Safety issues.
 - The Contractor expressly agrees to comply with the procedures and arrangements as required by the Act in the execution of the work.
4. The Contractor confirms; that he has been informed that he must report to Client management ;(in writing) anything that he deems to be unhealthy and/or unsafe and that he has versed his employees and/or contractors in this regard.
5. The Contractor warrants that he shall not endanger the health and safety of any of the Client's employees in any way whilst performing any work on the premises.

1. Signed by Client Rep Date _____

2. Signed by Contractor or his Authorized Represent Date _____

C3.4 Contractors Reports

CONTRACTOR MONTHLY REPORT

PART 1

Project No: Project Name:

Contract No:

Contractor Name:

Claim No: For Period Ending:

Date of Report:

The Contractors monthly report comprises an integral part of the Contractors payment claim and processing of the payment claim is not permitted without this report also being submitted i.e.

“NO REPORT – NO PAYMENT”.

Attachments:

Part 2 : Overall Project Worker Schedule: Schedule of all local labourers employed since the start of the project

Part 3 : Weekly Task Wage Register

Part 4 : Local Labour Schedule

Part 5 : Beneficiary List (certified copy of ID's)

Additional Requirements:

1. When contractor recruit local labourers, they must produce a 13 digit identity document and a certified copy of the ID must be forwarded to the DRPW Regional EPWP representative
2. That at least one disabled person be recruited and employed on the project and reported as such
3. A daily attendance register should be kept on site
4. Each beneficiary must **sign** the payment sheet, as proof that they have been paid.
5. At the bottom of the contractors report, the site agent or CLO or contractor must sign the document as proof that the people indicated have worked the number of days
6. Employment of local labourers should constitute the following:
 - a. 55% women
 - b. 55% young people
 - c. the minimum wage rate to be paid is in accordance with the National Minimum Wage Act, 1 March 2024 of the latest Published Act.

OVERALL PROJECT WORKER SCHEDULE (local labourers only)

Contract No: PART 2

Project No.

Project Name:

Month of Report:

Sheet: of

Names of all **Local Workers** employed **at any time on the project** are to be entered in the table below irrespective of how long they worked on the project.

No.	Name of Local Labourer	Identity Number	Month Worker Started	Age	Tick if Yes									Place a tick in the box which corresponds to the Gender and Age of the Worker				Total No. of workers Employed on the Project	
					Female Head of Household with Dependants	Disabled	Labourer	Semi-Skilled	Skilled	Supervisor	Clerical	Managerial	Professional	Women		Men			
														Over 35 yrs 2A	35 yrs & under 2B	Over 35 yrs 2C	35 yrs & under 2D		
Totals for this sheet																			Total No. of workers Employed on the Project
Totals from previous sheet																			
Totals carried forward																			

(A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) = (J+K+L)

NOTE: LOCAL LABOUR TARGETS TO BE ACHIEVED WITH REGARD TO EPWP RELATED WORKS: Women = 55%; Youth = 55%; Disabled = 2%

Completed by: Name: Signature:..... Capacity Date:.....

Project No. Project Name: Week Ending: Sheet:..... of

Entries in this portion to be completed by Foreman									Entries in this portion to be Completed by Contractor				
No.	Name of local worker	Day Tasks Worked							Payment				
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total DAY TASKS worked this week	Rate per DAY TASK	Total Payment due to Worker	Workers signature on receipt of Payment	Date Payment Received by Worker
Totals This Sheet													
Totals Brought Forward From previous Sheet													
Totals Carried Forward													
									(A)		(B)		

Completed by: Name: Signature: Capacity: Date:

LOCAL LABOUR AND MATERIAL SCHEDULE

PART 4

Contract No:

Date of Report:

Project No:

Project Name:

Claim No:

For Period Ending:

Contractor Name:

1. Summary of Day Tasks worked and Amount Spent on Local Labour this month

Week No.	Week Ending	Total Day Tasks / Person Days Worked	Total Amount Paid
		(Total of (A) from Form 4 for each week)	(Total of (B) from Form 4 for each week)
1			R
2			R
3			R
4			R
5			R
6			R
7			R
8			R
9			R
Total			R

Transfer to 2 in table below

2. Summary of Amount Spent on Local Labour to date

1. Previous Amount Spent on Local Labour (From previous claim)	R
2. Amount Spent on Local Labour this month (From Total above)	R
3. Total Amount Spent on Local Labour to date (3)= (1+ 2)	R

3. Local Labour Schedule

Summary of Local Labour Employed		No. of local workers who worked on the project to date (From Part 2)	% of Total
Columns refer to Columns in Part 2			
1. Total No. of individual local workers who have worked on the Project (Column N)			100%
10. How many of the Total No. are local youth (35 yrs and under) (Column B & D)			
11. How many of the Total No. are local women (Column A + B)			

4. Summary of Amount Spent on Material to Date (Cumulative)

Item	This Month	Total to date
1. Material from Local Municipality		

2. Material from Local District Municipality		
3. Material from Outside the Eastern Cape		
4. Material from other areas within the Eastern Cape		
Total Material		
Total material as percentage of contractor expenditure		
Total as percentage of contractor budget		

Training of Local Workers

Catogory of training	Name of course	No. trained	Days trained	Comments on progress
(a) Technical training for implementation	Bricklaying			
	Carpentry			
	Plumbing			
	Fencing			
	Plastering			
	Painting			
	House Building			
	Handyman			
	Electrical			
(b) Institutional training for local management beyond construction				
(c) Technical training for OMM				
(d) Institutional training for implementation				
(e) HIV/ Aids etc.				
Other – Please specify				
Total				

**NOTE: LOCAL LABOUR TARGETS TO BE ACHIEVED WITH REGARD TO
EPWP RELATED WORKS: Women = 55%; Youth = 55%; Disabled = 2%**

Completed by:
Name Signature Capacity Date

Part 5: Pricing Data

C2.1 Pricing Instructions

C2.1: PRICING INSTRUCTIONS JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

1. BILLS OF QUANTITIES

The **bills of quantities** forms part of and must be read and priced in conjunction with all the other documents forming part of the **contract documents**, the Standard Conditions of Bid, Conditions of Contract, Specifications, Drawings and all other relevant documentation.

2. VALUE ADDED TAX

The bid price must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the **bills of quantities** must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.

3. PREVIOUS WORK

The bidder is to acquaint themselves with the site thoroughly before pricing. Adjustment of prices will not be entertained after the award of the contract.

C2.2 Preliminaries / Bill of Quantities / Final Summary

INDEX TO BILLS OF QUANTITIES

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CONSTRUCTION OF CONVENTIONAL BRICKS AND MORTAR FOR TANDANANI SENIOR SECONDARY SCHOOL							
CLAUSE SECTION 1 : PRELIMINARIES					TOTAL		
	MEANING OF TERMS "TENDER / TENDERER" Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder" PRELIMINARIES The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable" PRICING OF PRELIMINARIES Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities						
SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT							
	<u>DEFINITIONS</u>						
A1.0	DEFINITIONS AND INTERPRETATION Clause 1.0 Sub-clause 1.1 Definition of "Interest" is amended by replacing it with the following: "INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, and 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) Sub-clause 1.10 is added: The copyright in all contract documents, contract drawings and records (irrespective of who prepared any of the aforesaid) related in any manner to the works shall vest in the employer and the contractor shall not furnish any information in connection with the works to any person or organization without the prior written approval of the employer to this effect other than subcontractors appointed for purposes of this agreement." <u>OBJECTIVE AND PREPARATION</u>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A2.0	OFFER, ACCEPTANCE AND PERFORMANCE Clause 2.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A3.0	DOCUMENTS Clause 3.0 Sub-clause 3.5 is amended by replacing it with: No Clause Sub-clause 3.7 is amended by replacing the second sentence starting in line 2 with the following: The contractor shall keep a copy of all drawings, schedules, unpriced bills of quantities/lump sum document, contract instructions, minutes of site and other meetings, health and safety files as specified in the scope of work, risk register, claims and variation order register, labour records and subcontractors contracts on the site to which the employer, principal agent and agents shall have access at all times. The employer has the right to call for such further information from the contractor it deems necessary in the event it carries out any investigation or audit into potential fraud, corruption, fronting, health and safety incidents or verifying information the contractor has to supply to the employer in terms of this agreement. The Contractor shall ensure a similar right for the Employer with its subcontractors. Sub-clause 3.10 is amended by replacing the the words "principal agent" with the word "employer"	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A4.0	DESIGN RESPONSIBILITY Clause 4.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A5.0	EMPLOYER'S AGENTS Clause 5.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A6.0	SITE REPRESENTATIVE Clause 6.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A7.0	COMPLIANCE WITH REGULATIONS Clause 7.0 Sub-clause 7.3 added: The Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 will in all respects be applicable to this contract. All obligations in respect of health and safety requirements of the Contractor are set out in the Scope of Work. Sub-clause 7.3.1 is added: Notwithstanding any actions which the employer may take, the contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which the contractor is liable as mandatory. By entering into this agreement it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act and will enter into the mandatory agreement as set out in the Scope of Work. This clause will be sufficient to establish the mandatory obligations of the contractor in the event the parties fail to execute the aforesaid mandatory agreement." Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification. The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-

CLAUSE SECTION 1 : PRELIMINARIES						TOTAL
A8.0	WORKS RISK Clause 8.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A9.0	INDEMNITIES Clause 9.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A10.0	WORKS INSURANCES Clause 10.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A11.0	LIABILITY INSURANCES Clause 11.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A12.0	EFFECTING INSURANCES Clause 12.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A13.0	NO CLAUSE	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A14.0	SECURITY Clause 14.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
Sub-clause 14.1 is amended by replacing it with: The employer shall have the right to choose the security to be provided in terms of 14.3 or 14.4 as stated in the schedule. The contractor shall provide the security required or chosen by the employer in the schedule substantially in the format prescribed in the tender documents that the contractor submitted a tender offer. The required security shall be provided in the time period prescribed by the employer in the conditional letter of acceptance of the contractor's tender offer. Sub-clause 14.3 is amended by replacing the percentage of "twelve point five (7.5%)" with "ten (10%)" Sub-clause 14.4 is amended by replacing the percentage of "seven point five (12.5%)" with "ten (10%)" Sub-clause 14.7.1 is amended by replacing the percentage of "two point five (2.5%)" with "five (5%)" in both the second and third line. Sub-clause 14.9 is added: A payment reduction of five (5%) of the value of each payment certificate up to a maximum of five (5%) of the contract sum will be applied until practical completion. At practical completion the amount withheld will be reduced to two point five (2.5%), which amount will reduce to nil (0%) when the final account is issued. EXECUTION						
A15.0	PREPARATION FOR AND EXECUTION OF THE WORKS Clause 15.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
Sub-clause 15.1 is amended by replacing the the words "principal agent" with the word "employer"						
A16.0	ACCESS TO THE WORKS Clause 16.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A17.0	CONTRACT INSTRUCTIONS Clause 17.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A18.0	SETTING OUT OF THE WORKS Clause 18.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A19.0	ASSIGNMENT Clause 19.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A20.0	NOMINATED SUBCONTRACTORS Clause 20.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
A21.0	SELECTED SUBCONTRACTORS Clause 21.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
Sub-clause 21.1.2 to 21.1.4 and 21.2 to 21.6 is amended by replacing it with: The contractor and principal agent shall appoint a selected subcontractor in accordance with the provisions of the Scope of Work.						
A22.0	EMPLOYER'S DIRECT CONTRACTORS Clause 22.0	Item	Fixed: _____ N/A	Value Related: _____ N/A	Time Related: _____ N/A	N/A
A23.0	CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.0	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
Sub-clause 23.3 is added: The contractor may not subcontract the whole of the work without the written instruction or approval of the employer. In such event the employer may require the contractor to cede the contract to the subcontractor. Sub-clause 23.4 is added: The subcontractors appointed by the contractor to comply with the developmental and transformation requirements from the employer in terms of applicable legislation, including but not limited to the Preferential Procurement Policy Framework Act, 5 of 2000, and regulation thereto, will be domestic subcontractors for purposes of this agreement, and sub-clauses 23.1 and 23.2 will apply accordingly.						

CLAUSE	SECTION 1 : PRELIMINARIES						TOTAL
	COMPLETION						
A24.0	PRACTICAL COMPLETION <i>Clause 24.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A25.0	WORKS COMPLETION <i>Clause 25.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A26.0	FINAL COMPLETION <i>Clause 26.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A27.0	LATENT DEFECTS LIABILITY PERIOD <i>Clause 27.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A28.0	SECTIONAL COMPLETION <i>Clause 28.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A29.0	REVISION OF DATE FOR PRACTICAL COMPLETION <i>Clause 29.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A30.0	PENALTY FOR NON-COMPLETION <i>Clause 30.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Sub-clause 30.1 is amended by replacing the reference to sub-clause "36.3" with clause "36.0"</i>						
	PAYMENT						
A31.0	INTERIM PAYMENT TO THE CONTRACTOR <i>Clause 31.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Sub-clause 31.9 is amended by replacing the term of "seven (7) calendar days" in the first line with the term of "thirty (30) calendar days"</i>						
	<i>Sub-clause 31.12 is amended by deleting the sentence: "Payment shall be subject to the employer giving the contractor a tax invoice for the amount due."</i>						
A32.0	ADJUSTMENT TO THE CONTRACT VALUE <i>Clause 32.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A33.0	RECOVERY OF EXPENSE AND LOSS <i>Clause 33.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A34.0	FINAL ACCOUNT AND FINAL PAYMENT <i>Clause 34.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Sub-clause 34.13 is amended by deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</i>						
A35.0	PAYMENT TO OTHER PARTIES <i>Clause 35.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	CANCELLATION						
A36.0	CANCELLATION BY EMPLOYER – CONTRACTOR'S DEFAULT <i>Clause 36.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A37.0	CANCELLATION BY EMPLOYER – LOSS AND DAMAGE <i>Clause 37.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A38.0	CANCELLATION BY CONTRACTOR – EMPLOYER'S DEFAULT <i>Clause 38.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
A39.0	CANCELLATION – CESSATION OF THE WORKS <i>Clause 39.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	DISPUTE						
A40.0	DISPUTE SETTLEMENT <i>Clause 40.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Clause 40 is amended by removing all references to state clause amendments and is thus retained in its original form.</i>						

CLAUSE SECTION 1 : PRELIMINARIES						TOTAL
	<u>SUBSTITUTE PROVISIONS</u>					
A41.0	STATE CLAUSES <i>Clause 41.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
	<i>Clause 41.0 is amended as set out below with reference to sub-clause 41.1 or the original clause number stated therein</i>					
	<i>Sub-clause 41.1.3 is amended by deleting the definition for CONSTRUCTION PERIOD.</i>					
	<i>Sub-clause 39.2 to be amended as follows: "The employer shall pay the contractor all amounts due in terms of the contract for work completed at the date of termination or cancellation in terms of this clause 39.2, including retention money after deducting any amounts due to the employer. The employer will also return any guarantees still valid to the contractor after such cancellation."</i>					
	<i>Sub-clause 39.2.1 and 39.2.3 is amended by replacing it with the following: No clause.</i>					
	<i>Add sub-clause 41.1.4 as follows: Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor, or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a stated date and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever.</i>					
	<u>CONTRACT VARIABLES</u>					
A42.0	THE SCHEDULE (C1.2: CONTRACT DATA) <i>Clause 42.0</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
	<i>Tenderers are referred to document C1.2: Contract Data (Volume 3) for variables pertaining to this contract</i>					
<u>SECTION B: JBCC PRELIMINARIES</u>						
B1.0	DEFINITIONS AND INTERPRETATION					
B1.1	<i>Definitions and interpretation</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
	<i>See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section</i>					
B2.0	DOCUMENTS					R
B2.1	<i>Checking of documents</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B2.2	<i>Provisional bills of quantities</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B2.3	<i>Availability of construction documentation</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B2.4	<i>Interests of agents</i>	Item	Fixed: N/A	Value Related: N/A	Time Related: N/A	N/A
B2.5	<i>Priced documents</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B2.6	<i>Tender submission</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
	<i>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)"</i>					
B3.0	THE SITE					
B3.1	<i>Defined works area</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B3.2	<i>Geotechnical investigation</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B3.3	<i>Inspection of the site</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
	<i>Tenderers shall complete the Tender briefing meeting attendance certificate and return the same with the tender submission. Tenderers are encouraged to inspect the various school sites as they deem necessary.</i>					
B3.4	<i>Existing premises occupied</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B3.5	<i>Previous work – dimensional accuracy</i>	Item	Fixed: N/A	Value Related: N/A	Time Related: N/A	N/A
B3.6	<i>Previous work – defects</i>	Item	Fixed: N/A	Value Related: N/A	Time Related: N/A	N/A
B3.7	<i>Services – known</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B3.8	<i>Services – unknown</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B3.9	<i>Protection of trees</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B3.10	<i>Articles of value</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
B3.11	<i>Inspection of adjoining properties</i>	Item	Fixed: _____	Value Related: _____	Time Related: _____	R

CLAUSE	SECTION 1 : PRELIMINARIES						TOTAL
B4.0	MANAGEMENT OF CONTRACT						
B4.1	Management of the works	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B4.2	Programme for the works	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B4.3	Progress meetings	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B4.4	Technical meetings	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B4.5	Labour and plant records	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B5.0	SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS						
B5.1	Samples of materials	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B5.2	Workmanship samples	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B5.3	Shop drawings	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B5.4	Compliance with manufacturers' instructions	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B6.0	TEMPORARY WORKS AND PLANT						
B6.1	Deposits and fees	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B6.2	Enclosure of the works	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B6.3	Advertising	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B6.4	Plant, equipment, sheds and offices	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B6.5	Main notice board	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B6.6	Subcontractors' notice board	Item	Fixed: N/A	Value Related: N/A	Time Related: N/A		N/A
B7.0	TEMPORARY SERVICES						
B7.1	Location	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B7.2	Water	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B7.3	Electricity	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B7.4	Telecommunication facilities	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B7.5	Ablution facilities	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B8.0	PRIME COST AMOUNTS						
B8.1	Responsibility for prime cost amounts	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B9.0	ATTENDANCE ON N/S SUBCONTRACTORS						
B9.1	General attendance	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B9.2	Special attendance	Item	Fixed: N/A	Value Related: N/A	Time Related: N/A		N/A
B9.3	Commissioning – fuel, water and electricity	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B10.0	FINANCIAL ASPECTS						
B10.1	Statutory taxes, duties and levies	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B10.2	Payment for preliminaries	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B10.3	Adjustment of preliminaries	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document"						
B10.4	Payment certificate cash flow	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.0	GENERAL						
B11.1	Protection of the works	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.2	Protection / isolation of existing / sectionally occupied works	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-

CLAUSE SECTION 1 : PRELIMINARIES							TOTAL
B11.3	Security of the works	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.4	Notice before covering work	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.5	Disturbance	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.6	Environmental disturbance	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.7	Works cleaning and clearing	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.8	Vermin	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.9	Overhand work	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.10	Instruction manuals and guarantees	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.11	As built information	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
B11.12	Tenant installations	Item	Fixed: N/A	Value Related: N/A	Time Related: N/A		N/A
B12.0	SCHEDULE OF VARIABLES						
B12.1	Pre-tender information	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries</i> <i>Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets</i>						
12.1	PRE-TENDER INFORMATION						
12.1.1	Provisional bills of quantities						
[2.2]	The quantities are provisional (yes/no) Yes						
12.1.2	Availability of construction documentation						
[2.3]	Construction documentation is complete (yes/no) Yes						
12.1.3	Interests of agents						
[2.4]	Details: N/A						
12.1.4	Defined works area						
[3.1]	Details: The area of the works to be occupied by the contractor, any restrictions on the area and the limit of access or exit will be pointed out to the tenderers by the principal agent at the site handover.						
12.1.5	Geotechnical investigation						
[3.2]	Details: N/A						
12.1.6	Existing premises occupied						
[3.4]	Specific requirements: The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.						
12.1.7	Previous work – dimensional accuracy						
[3.5]	Details: N/A						
12.1.8	Previous work – defects						
[3.6]	Details: N/A						
12.1.9	Services – known						
[3.7]	Details: Services not indicated on drawings will be pointed out on site by the principal agent.						
12.1.10	Protection of trees						
[3.9]	Specific requirements: Specific plants to be relocated will be pointed out to the contractor before site clearance takes place.						
12.1.11	Inspection of adjoining properties						
[3.11]	Specific requirements: All adjacent buildings, municipal roads, kerbs, paving, etc, shall be inspected before the commencement of the works and all existing defects recorded and a photographic record shall be kept.						
12.1.12	Enclosure of the works						
[6.2]	Specific requirements: The contractor must make provision for fencing the contractor's yard/camp site with a suitable fence at least 1,8m high with lockable access gates, which must be maintained during the construction period and removed on completion of the works.						
12.1.13	Offices						
[6.4.3]	Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times						

CLAUSE	SECTION 1 : PRELIMINARIES	TOTAL
12.1.14 [6.5]	Main notice board Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 2.75 x 3.7m as per the specification and the drawing annexed to these bills of quantities for tender purposes, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces.	
12.1.15 [6.8]	Subcontractors' notice board A notice board is required Specific requirements: None	(yes/no) No
12.1.16 [7.2]	Water Option A (by contractor)	(yes/no) Yes
	Option B (by employer – free of charge)	(yes/no) No
	Option C (by employer – metered)	(yes/no) No
12.1.17 [7.3]	Electricity Option A (by contractor)	(yes/no) Yes
	Option B (by employer – free of charge)	(yes/no) No
	Option C (by employer – metered)	(yes/no) No
12.1.18 [7.4]	Telecommunications Telephone	(yes/no) Yes
	Facsimile	(yes/no) No
	E-mail	(yes/no) Yes
12.1.19 [7.5]	Ablution facilities Option A (by contractor)	(yes/no) Yes
	Option B (by employer)	(yes/no) No
12.1.20 [11.2]	Protection of existing/sectionally occupied works Protection is required	(yes/no) Yes
12.1.21 [9.2]	Special attendance Subcontractor (1) details: N/A Subcontractor (2) details: N/A Subcontractor (3) details: N/A Subcontractor (4) details: N/A	
12.1.22 [11.1]	Protection of the works Specific requirements: None	
12.1.23 [11.5]	Disturbance Specific requirements: The contractor shall exercise dust and sand control by watering the site regularly and/or by using any other suitable measures such as providing, erecting and removing on completion of the works all necessary temporary dust screens, all to the satisfaction of the principal agent.	
12.1.24 [11.6]	Environmental disturbance Specific requirements: N/A	
12.2	POST-TENDER INFORMATION	
12.2.1 [10.2]	Payment of preliminaries Option A (prorated)	(yes/no) Yes
	Option B (calculated)	(yes/no) No
12.2.2 [10.3]	Adjustment of preliminaries Option A (three categories)	(yes/no)
	Option B (detailed breakdown)	(yes/no)
12.2.3	Additional agreed preliminaries items Details:	

CLAUSE SECTION 1 : PRELIMINARIES					TOTAL
SECTION C: SPECIFIC PRELIMINARIES					
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item				
C1.0	CONTRACT DRAWINGS	Item	Fixed: _____	Value Related: _____ Time Related: _____	R -
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent				
C2.0	GENERAL PREAMBLES	Item	Fixed: _____	Value Related: _____ Time Related: _____	R -
	The items in the bills of quantities / lump sum document are to be read and priced in conjunction with, and the descriptions regarded as amplified by, the "Model Preambles for Trades 2008" as published by the Association of South African Quantity Surveyors, and no claim arising from the brevity of descriptions of items fully described in the said Model Preambles for Trades will be entertained. The Department of Public Works Construction Works Specifications (PW371 – A Edition 2.0) shall also apply to the Works.				
C3.0	TRADE NAMES	Item	Fixed: _____	Value Related: _____ Time Related: _____	R -
	Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for				
C4.0	IMPORTED MATERIALS AND EQUIPMENT	Item	Fixed: _____	Value Related: _____ Time Related: _____	R -
	Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. 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)				
C5.0	VIEWING THE SITE IN SECURITY AREAS	Item	Fixed: _____ N/A	Value Related: _____ N/A Time Related: _____ N/A	N/A
	The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes				
C6.0	COMMENCEMENT OF WORKS IN SECURITY AREAS	Item	Fixed: _____ N/A	Value Related: _____ N/A Time Related: _____ N/A	N/A
	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				
C7.0	ENTRANCE PERMITS TO SECURITY AREAS	Item	Fixed: _____ N/A	Value Related: _____ N/A Time Related: _____ N/A	N/A
	As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer				
C8.0	SECURITY CHECK OF PERSONNEL	Item	Fixed: _____ N/A	Value Related: _____ N/A Time Related: _____ N/A	N/A
	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works				
C9.0	PROHIBITION ON TAKING OF PHOTOGRAPHS	Item	Fixed: _____ N/A	Value Related: _____ N/A Time Related: _____ N/A	N/A
	In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959				
C10.0	OCCUPATIONAL HEALTH AND SAFETY ACT				
	The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)				
	It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document				
	The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent , notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment				
	Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained				

CLAUSE	SECTION 1 : PRELIMINARIES					TOTAL
C10.1	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines. It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under this clause and the specific related clauses hereafter and no additional claims in this regard shall be entertained</i>					
C10.2	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Preparation of contractor's site specific health and safety plan, including compliance with Covid-19 legislation, regulations and guidelines</i>					
C10.3	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Principal contractor's initial obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc</i>					
C10.4	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Principal contractor's time related obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc</i>					
C10.5	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of reflective vests</i>					
C10.6	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of hard hats</i>					
C10.7	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of protective footwear</i>					
C10.8	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of earplugs</i>					
C10.9	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of dust masks</i>					
C10.10	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of gloves</i>					
C10.11	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of high visibility overalls to SARTSM Chapter 13 Level 3</i>					
C10.12	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of SANS approved ear defenders</i>					
C10.13	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of face masks (Covid -19)</i>					
C10.14	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of face shields (Covid -19)</i>					
C10.15	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of gloves (Covid -19)</i>					
C10.16	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of hand sanitiser (min 70% alcohol), foot press stands and paper towels (Covid -19)</i>					
C10.17	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)</i>					
C10.18	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of digital infrared non-contact body thermometer (Covid -19, minimum of two per site entrance)</i>					
C10.19	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)</i>					
C10.20	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of signage, including Covid -19 related signage</i>					
C10.21	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -
	<i>Provision of full time construction health and safety officer (SACPCMP Registered)</i>					
C10.22	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R -

CLAUSE SECTION 1 : PRELIMINARIES						TOTAL	
	<i>Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations</i>						
C10.23	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Medical screenings, examinations, etc in terms of Covid-19 regulations</i>						
C10.24	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Induction training, including Covid-19 training</i>						
C10.25	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Provision of first aid boxes to GSR requirements</i>						
C10.26	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc</i>						
C10.27	OCCUPATIONAL HEALTH AND SAFETY	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Submission of health and safety file</i>						
C11.0	HIV/AIDS AWARENESS	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.</i> <i>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</i>						
C11.1	AWARENESS CHAMPAIGN	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Selection, appointment, briefing and making available of an Awareness Campaign including provision of all relevant services, all in accordance with the HIV/AIDS Specification</i>						
C11.2	AWARENESS WORKSHOPS	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</i>						
C11.3	POSTERS, BOOKLETS, VIDEOS, ETC.	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</i>						
C11.4	ACCESS TO CONDOMS	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</i>						
C11.5	MONITORING	Item	Fixed: _____	Value Related: _____	Time Related: _____	R	-
	<i>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</i>						

CLAUSE SECTION 1 : PRELIMINARIES						TOTAL
C12.0	LOCAL LABOUR	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
The contractor shall comply with the following targets with regard to the employment of local labour: For the general labour force, the minimum number of people to be employed for the duration of the project will be calculated from the formula below. Number of Employees=4*[(Contract Value in Rand)/R1,000,000] - All unskilled labour to be employed on the project must be local labour, - Contractor to endeavour to employ local semi-skilled and skilled labour, - Local labour to be employed on the project to be residents from geographic area of the Local Municipality within where the project site is situated or, the geographic area excluding the Local Municipality, which falls under the jurisdiction of the District Municipality. - Preference shall be granted to competent labour residing within the Local Municipality above labour residing in the District Municipality. - Local labour employed must not be paid lower than the minimum approved municipal rates in that district or area. The abovementioned conditions do not apply to the contractor's permanent staff and specialist works. The contractor is to submit to the principal agent details of his plan to achieve this aspect, within five working days of being instructed to do so, where after it must be implemented. Suitable monthly reports to substantiate compliance with the above requirements shall be submitted by the contractor to the Principal Agent.						
C13.0	USE OF LOCAL SMME's	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
It is the requirement of the employer that the contractor enhances the use of SMME's, as described in the Contract Data, on the project. The contractor shall employ SMME's as domestic subcontractors on this project to execute work to the minimum value of 30% of the contract value. The Targeted Local Labour requirements described elsewhere shall apply mutatis mutandis to the employment of SMME's. The contractor is to submit to the principal agent details of his plan to achieve this aspect, within five working days of being instructed to do so, whereafter it must be implemented. Should the contractor fail to implement this requirement as indicated above, the Employer shall have the right to, without prejudice of any other rights, apply a penalty of not exceeding 5% of the contract sum. Suitable monthly reports to substantiate compliance with the above requirements shall be submitted by the contractor to the Principal Agent.						
C14.0	USE OF LOCAL BUILDING MATERIALS	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
Preference shall be given to the supply of materials produced or manufactured in the Eastern Cape Province, and provided that: (a) Such materials comply in all respects with the specific requirements of PW371-A specification (b) The availability of such materials shall not adversely affect the desired progress of the specific works (c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof (d) The minimum target for materials sourced locally is 20% of the contract value. (e) Local is hereby defined as the district in which the project(s) is/are located. Suitable monthly reports to substantiate compliance with the above requirements shall be submitted by the contractor to the Principal Agent.						
C15.0	REPORTING BY CONTRACTOR	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
The contractor is required to complete the mandatory monthly contractor's report which is to be submitted together with the contractor's payment certificate. Payment to contractor shall be subject to the aforementioned being submitted timeously and accurately.						
C16.0	COMMUNITY LIAISON OFFICER	Item	Fixed: _____	Value Related: _____	Time Related: _____	R
The contractor shall employ during the construction period a community liaison officer. A provisional sum has been included in C2.2: Bills of Quantities for the salary of the community liaison officer, but the contractor shall allow for all other costs related to the employment of the community liaison officer such as but not limited to, toilet facilities, office space, supervision, stationery, safety clothing, etc.						

SECTION 1 : PRELIMINARIES							
COLLECTION		FIXED		VALUE RELATED		TIME RELATED	TOTAL AMOUNT
A1.0	DEFINITIONS AND INTERPRETATION	R	-	R	-	R	-
A2.0	OFFER, ACCEPTANCE AND PERFORMANCE	R	-	R	-	R	-
A3.0	DOCUMENTS	R	-	R	-	R	-
A4.0	DESIGN RESPONSIBILITY	R	-	R	-	R	-
A5.0	EMPLOYER'S AGENTS	R	-	R	-	R	-
A6.0	SITE REPRESENTATIVE	R	-	R	-	R	-
A7.0	COMPLIANCE WITH REGULATIONS	R	-	R	-	R	-
A8.0	WORKS RISK	R	-	R	-	R	-
A9.0	INDEMNITIES	R	-	R	-	R	-
A10.0	WORKS INSURANCES	R	-	R	-	R	-
A11.0	LIABILITY INSURANCES	R	-	R	-	R	-
A12.0	EFFECTING INSURANCES	R	-	R	-	R	-
A13.0	NO CLAUSE	R	-	R	-	R	-
A14.0	SECURITY	R	-	R	-	R	-
A15.0	PREPARATION FOR AND EXECUTION OF THE WORKS	R	-	R	-	R	-
A16.0	ACCESS TO THE WORKS	R	-	R	-	R	-
A17.0	CONTRACT INSTRUCTIONS	R	-	R	-	R	-
A18.0	SETTING OUT OF THE WORKS	R	-	R	-	R	-
A19.0	ASSIGNMENT	R	-	R	-	R	-
A20.0	NOMINATED SUBCONTRACTORS	R	-	R	-	R	-
A21.0	SELECTED SUBCONTRACTORS	R	-	R	-	R	-
A22.0	EMPLOYER'S DIRECT CONTRACTORS		N/A		N/A		N/A
A23.0	CONTRACTOR'S DOMESTIC SUBCONTRACTORS	R	-	R	-	R	-
A24.0	PRACTICAL COMPLETION	R	-	R	-	R	-
A25.0	WORKS COMPLETION	R	-	R	-	R	-
A26.0	FINAL COMPLETION	R	-	R	-	R	-
A27.0	LATENT DEFECTS LIABILITY PERIOD	R	-	R	-	R	-
A28.0	SECTIONAL COMPLETION	R	-	R	-	R	-
A29.0	REVISION OF DATE FOR PRACTICAL COMPLETION	R	-	R	-	R	-
A30.0	PENALTY FOR NON-COMPLETION	R	-	R	-	R	-
A31.0	INTERIM PAYMENT TO THE CONTRACTOR	R	-	R	-	R	-
A32.0	ADJUSTMENT TO THE CONTRACT VALUE	R	-	R	-	R	-
A33.0	RECOVERY OF EXPENSE AND LOSS	R	-	R	-	R	-
A34.0	FINAL ACCOUNT AND FINAL PAYMENT	R	-	R	-	R	-
A35.0	PAYMENT TO OTHER PARTIES	R	-	R	-	R	-
A36.0	CANCELLATION BY EMPLOYER – CONTRACTOR'S DEFAULT	R	-	R	-	R	-
A37.0	CANCELLATION BY EMPLOYER – LOSS AND DAMAGE	R	-	R	-	R	-
A38.0	CANCELLATION BY CONTRACTOR – EMPLOYER'S DEFAULT	R	-	R	-	R	-
A39.0	CANCELLATION – CESSATION OF THE WORKS	R	-	R	-	R	-
A40.0	DISPUTE SETTLEMENT	R	-	R	-	R	-
A41.0	STATE CLAUSES	R	-	R	-	R	-
A42.0	THE SCHEDULE (C1.2: CONTRACT DATA)	R	-	R	-	R	-
B1.0	DEFINITIONS AND INTERPRETATION						
B1.1	Definitions and interpretation	R	-	R	-	R	-
B2.0	DOCUMENTS						
B2.1	Checking of documents	R	-	R	-	R	-
B2.2	Provisional bills of quantities	R	-	R	-	R	-
B2.3	Availability of construction documentation	R	-	R	-	R	-
B2.4	Interests of agents		N/A		N/A		N/A
B2.5	Priced documents	R	-	R	-	R	-
B2.6	Tender submission	R	-	R	-	R	-
B3.0	THE SITE						
B3.1	Defined works area	R	-	R	-	R	-
B3.2	Geotechnical investigation	R	-	R	-	R	-
B3.3	Inspection of the site	R	-	R	-	R	-
B3.4	Existing premises occupied	R	-	R	-	R	-
B3.5	Previous work – dimensional accuracy		N/A		N/A		N/A
B3.6	Previous work – defects		N/A		N/A		N/A
B3.7	Services – known	R	-	R	-	R	-
B3.8	Services – unknown	R	-	R	-	R	-
B3.9	Protection of trees	R	-	R	-	R	-
B3.10	Articles of value	R	-	R	-	R	-
B3.11	Inspection of adjoining properties	R	-	R	-	R	-
B4.0	MANAGEMENT OF CONTRACT						
B4.1	Management of the works	R	-	R	-	R	-
B4.2	Programme for the works	R	-	R	-	R	-
B4.3	Progress meetings	R	-	R	-	R	-
B4.4	Technical meetings	R	-	R	-	R	-
B4.5	Labour and plant records	R	-	R	-	R	-
B5.0	SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS						
B5.1	Samples of materials	R	-	R	-	R	-
B5.2	Workmanship samples	R	-	R	-	R	-
B5.3	Shop drawings	R	-	R	-	R	-
B5.4	Compliance with manufacturers' instructions	R	-	R	-	R	-
B6.0	TEMPORARY WORKS AND PLANT						
B6.1	Deposits and fees	R	-	R	-	R	-
B6.2	Enclosure of the works	R	-	R	-	R	-
B6.3	Advertising	R	-	R	-	R	-
COLLECTION		FIXED		VALUE RELATED		TIME RELATED	AMOUNT
B6.4	Plant, equipment, sheds and offices	R	-	R	-	R	-
B6.5	Main notice board	R	-	R	-	R	-
B6.6	Subcontractors' notice board		N/A		N/A		N/A
B7.0	TEMPORARY SERVICES						
B7.1	Location	R	-	R	-	R	-
B7.2	Water	R	-	R	-	R	-

CLAUSE	SECTION 1 : PRELIMINARIES						TOTAL
B7.3	Electricity	R	-	R	-	R	-
B7.4	Telecommunication facilities	R	-	R	-	R	-
B7.5	Ablution facilities	R	-	R	-	R	-
B8.0	PRIME COST AMOUNTS						
B8.1	Responsibility for prime cost amounts	R	-	R	-	R	-
B9.0	ATTENDANCE ON N/S SUBCONTRACTORS						
B9.1	General attendance	R	-	R	-	R	-
B9.2	Special attendance		N/A		N/A		N/A
B9.3	Commissioning – fuel, water and electricity	R	-	R	-	R	-
B10.0	FINANCIAL ASPECTS						
B10.1	Statutory taxes, duties and levies	R	-	R	-	R	-
B10.2	Payment for preliminaries	R	-	R	-	R	-
B10.3	Adjustment of preliminaries	R	-	R	-	R	-
B10.4	Payment certificate cash flow	R	-	R	-	R	-
B11.0	GENERAL						
B11.1	Protection of the works	R	-	R	-	R	-
B11.2	Protection / isolation of existing / sectionally occupied works	R	-	R	-	R	-
B11.3	Security of the works	R	-	R	-	R	-
B11.4	Notice before covering work	R	-	R	-	R	-
B11.5	Disturbance	R	-	R	-	R	-
B11.6	Environmental disturbance	R	-	R	-	R	-
B11.7	Works cleaning and clearing	R	-	R	-	R	-
B11.8	Vermin	R	-	R	-	R	-
B11.9	Overhand work	R	-	R	-	R	-
B11.10	Instruction manuals and guarantees	R	-	R	-	R	-
B11.11	As built information	R	-	R	-	R	-
B11.12	Tenant installations		N/A		N/A		N/A
B12.0	SCHEDULE OF VARIABLES						
B12.1	Pre-tender information	R	-	R	-	R	-
C1.0	CONTRACT DRAWINGS	R	-	R	-	R	-
C2.0	GENERAL PREAMBLES	R	-	R	-	R	-
C3.0	TRADE NAMES	R	-	R	-	R	-
C4.0	IMPORTED MATERIALS AND EQUIPMENT	R	-	R	-	R	-
C5.0	VIEWING THE SITE IN SECURITY AREAS		N/A		N/A		N/A
C6.0	COMMENCEMENT OF WORKS IN SECURITY AREAS		N/A		N/A		N/A
C7.0	ENTRANCE PERMITS TO SECURITY AREAS		N/A		N/A		N/A
C8.0	SECURITY CHECK OF PERSONNEL		N/A		N/A		N/A
C9.0	PROHIBITION ON TAKING OF PHOTOGRAPHS		N/A		N/A		N/A
C10.0	OCCUPATIONAL HEALTH AND SAFETY ACT						
C10.1	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.2	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.3	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.4	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.5	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.6	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.7	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.8	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.9	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.10	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.11	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.12	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.13	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.14	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.15	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.16	PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)	R	-	R	-	R	-
C10.17	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.18	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.19	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.20	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.21	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.22	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.23	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.24	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.25	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.26	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C10.27	OCCUPATIONAL HEALTH AND SAFETY	R	-	R	-	R	-
C11.0	HIV/AIDS AWARENESS	R	-	R	-	R	-
C11.1	AWARENESS CHAMPAIGN	R	-	R	-	R	-
C11.2	AWARENESS WORKSHOPS	R	-	R	-	R	-
C11.3	POSTERS, BOOKLETS, VIDEOS, ETC.	R	-	R	-	R	-
C11.4	ACCESS TO CONDOMS	R	-	R	-	R	-
C11.5	MONITORING	R	-	R	-	R	-
C12.0	LOCAL LABOUR	R	-	R	-	R	-
	COLLECTION		FIXED		VALUE RELATED		TIME RELATED
C13.0	USE OF LOCAL SMME's	R	-	R	-	R	-
C14.0	USE OF LOCAL BUILDING MATERIALS	R	-	R	-	R	-
C15.0	REPORTING BY CONTRACTOR	R	-	R	-	R	-
C16.0	COMMUNITY LIAISON OFFICER	R	-	R	-	R	-
	TOTAL EXCLUDING VAT	R	-	R	-	R	-
	TOTAL EXCLUDING VAT CARRIED TO FINAL SUMMARY PAGE						R

SECTION NO. 2
REPAIRS AND RENOVATIONS

	Unit	Quantity	Rate	TANDANANI SSS Amount
<u>SECTION NO. 2</u> <u>REPAIRS AND RENOVATIONS</u> <u>BILL NO. 1</u> <u>ALTERATIONS</u>				
<u>Key:</u> Un/A FB1 SB2 MB3	<u>Location Description:</u> Unallocated Block 1 Female Block 2 Staff Block 3 Male			
<u>SUPPLEMENTARY PREAMBLES</u> <u>Alterations:</u> In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building. The Contractor shall ensure the stability of all structures during alteration work. Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary. The Contractor shall take all precautions necessary to prevent any nuisance from dust whilst carrying out the work				
<u>Notices, etc:</u> The contractor shall, before commencing demolition work, obtain all necessary authorisation for carrying out the work, by whatever means including the use of pneumatic equipment or blasting, give all necessary notices and pay all charges and fees in connection therewith. He shall also comply with all regulations pertaining to rodent extermination, handling of asbestos/ fibre cement and other dangerous products, etc and pay all necessary fees. All receipts and required certificates shall be handed to the Principal Agent and the contractor shall pay all relevant charges and fees, which shall be deemed to be included in his prices. The contractor shall give ample notice to the Principal Agent and School Authorities regarding any disconnections necessary prior to the removal or interruption of electrical or telephone cables, water and sanitary services, etc.				
Carried to Collection			R	

				TANDANANI SSS	
				Unit	Quantity
				Rate	Amount
<u>Removal or demolition of existing work comprising or containing asbestos products:</u>					
Where existing works comprising or containing asbestos products are removed or demolished, the contractor shall ensure that such work is conducted in accordance with the provisions of the Asbestos Regulations promulgated by Government Notice No. R. 155 of 10 February 2002, as amended, as provided for in clause 12(9) of the Construction Regulations.					
Such works shall be carried out by a company registered with Department of Labour as an Asbestos Contractor. Prior to the commencement of such works, a plan of work approved by an approved by an approved Asbestos Inspection Authority shall be submitted to the Provincial Director / Provincial Executive Manager.					
<u>Materials from the demolitions, credit, etc:</u>					
Materials recovered from the demolitions will become the property of the Contractor, who may allow credit in respect thereof where provided for in the bills of quantities. Such materials shall not be re-used in any new work without written permission from Principal agent.					
<u>Disposal of debris:</u>					
The contractor shall be responsible for the removal from the site of all materials, rubble, debris and rubbish resulting from the demolitions.					
<u>REMOVAL OF EXISTING WORK</u>					
<u>Breaking down and removing brickwork etc.</u>					
1	Face brick gable walls.	m ²	23		
	FB1 11 SB2 6 MB3 6				
2	Blocks to gable walls.	m ²	11		
	MB3 11				
3	Blocks walls to beam filling.	m ²	6		
	MB3 6				
<u>Taking out and removing doors, windows, etc from brickwork, preparing openings as necessary to receive new door frames, including making good cement plaster on both sides:</u>					
4	Steel single door and frame 914mm x 2090mm high overall from one brick wall.	No	4		
	FB1 1 SB2 1 MB3 2				
5	Timber single door and frame not exceeding 2,5m2.	No	2		
	SB2 2				
Carried to Collection				R	

					TANDANANI SSS	
		Unit	Quantity	Rate	Amount	
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc:</u>						
6	Double pitched corrugated iron roof approximately 11500 x 6000 x 2100mm high overall including roof covering, timber trusses and purlins, ceilings and cornices, eaves soffit covering, fascias, barge boards, gutters and rainwater pipes.	No	1			
	MB3 1					
7	12 x 225mm Fibre cement fascias.	m	66			
	FB1 23 SB2 20 MB3 23					
8	80 x 200mm Fibre cement barge boards.	m	90			
	FB1 30 SB2 30 MB3 30					
9	125 x 87mm UPVC Eaves gutters including downpipes, stop ends, outlet, shoes, etc.	m	126			
	FB1 43 SB2 40 MB3 43					
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, etc:</u>						
10	30mm Screed from floors.	m ²	206			
	FB1 68 SB2 69 MB3 69					
11	Remove damaged floor epoxy.	m ²	206			
	FB1 69 SB2 68 MB3 69					
<u>Hacking up/off and removing ceramic or clay tiles, including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new tile finish:</u>						
12	Tile sills not exceeding 300mm wide.	m	29			
	FB1 5 SB2 10 MB3 14					
<u>Taking out and removing glass:</u>						
13	Glass from steel windows, including cleaning out rebates and preparing for new glass.	m ²	12			
	FB1 2 SB2 5 MB3 5					
<u>Taking out and removing sanitary fittings, tanks, etc, including disconnecting from tap, etc, and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>						
14	Stainless steel wash hand basin	No	8			
	FB1 3 SB2 2 MB3 3					
15	Vitreous china wall hung urinal flush valve and flush pipe.	No	5			
	SB2 1 MB3 4					
Carried to Collection					R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Servicing of existing windows, doors, structures, etc:</u>					
16	Steel window 650 x 550mm high with two side hung opening sashes, including replacing defective and lacking ironmongery.	No	28		
	FB1 9 SB2 9 MB3 10				
17	Allow for honey sucking to toilet structure size 10.50 x 5,0m wide including cartaway to municipality sewerage, cleaning with water or chemical to be suitable for people to be able to work.	No	2		
	FB1 1 MB3 1				
18	Allow for honey sucking to toilet structure size 9,0 x 6,0m wide including cartaway to municipality sewerage, cleaning with water or chemical to be suitable for people to be able to work.	No	1		
	SB2 1				
Carried to Collection				R	

BILL NO. 1
ALTERATIONS
COLLECTION

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Amount

TANDANANI SSS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>REPAIRS AND RENOVATIONS</u>				
<u>BILL NO. 2</u>				
<u>MASONRY</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
FB1	Block 1 Female			
SB2	Block 2 Staff			
MB3	Block 3 Male			
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Sizes in descriptions:</u>				
Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.				
<u>SAMPLES</u>				
Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site.				
<u>BRICKWORK, BLOCKWORK IN SUPERSTRUCTURE</u>				
<u>Blockwork shall comply with SANS 10145 "Concrete Masonry Construction" in Class II mortar:</u>				
1	190mm block walls in beamfilling.	m ²	4	
	MB3 4			
2	190m block walls in gables.	m ²	11	
	MB3 11			
<u>BRICKWORK SUNDRIES</u>				
3	150mm Wide galvanised brick reinforcement built in horizontally.	m	231	
	MB3 231			
4	30 x 1,6mm Galvanised hoop iron roof tie 1,5m long with one end fixed to timber and other end built into brickwork.	No	18	
	MB3 18			
<u>FACE BRICKWORK</u>				
<u>Face bricks (Allow a PC amount of R9000.00 per 1000 bricks supplied and delivered to site) pointed wit recessed horizontal and vertical joints:</u>				
5	Extra over brickwork for face brickwork.	m ²	22	
	FB1 11 MB3 11			
Carried to Collection				R

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
6	Extra over brickwork to beam filling for face brickwork. FB1 4	m ²	4		
7	Fair raking cutting. FB1 30 MB3 44	m	74		
<u>FIBRE-CEMENT WINDOWS SILLS</u>					
<u>Natural grey fibre cement sills in single lengths bedded in class II mortar including metal fixing lugs, etc:</u>					
8	<u>15 x 150mm Wide sills set flat and slightly projecting.</u> FB1 5 SB2 10 MB3 14	m	29		
Carried to Collection				R	

BILL NO. 2
MASONRY
COLLECTION

TANDANANI SSS
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TANDANANI SSS

Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>REPAIRS AND RENOVATIONS</u>			
<u>BILL NO. 3</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>Key:</u>	<u>Location Description:</u>		
Un/A	Unallocated		
FB1	Block 1 Female		
SB2	Block 2 Staff		
MB3	Block 3 Male		
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Joinery:</u>			
Descriptions of hardwood joinery shall be deemed to include punching nail heads and filling with matching wood filler and sinking and pelleting heads and nuts of bolts.			
<u>Fixing:</u>			
Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres.			
<u>Prefabricated roof trusses:</u>			
Prefabricated trusses shall be fabricated in a factory that has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principle Agent. All trusses shall be designed by a registered Professional Engineer in accordance with SABS Code of practice for Design of Timber Structures. The complete structure shall be inspected by the truss designer to ensure that the manufacture and erection details have been complied with.			
<u>ROOFS ETC</u>			
<u>EAVES, VERGES, ETC</u>			
<u>Medium density fibre-cement board:</u>			
	12 x 225mm Fascia boards fixed to roof timbers with brass screws and 38 x 50 x 114mm softwood blocking pieces including 'Chromaprep' H-profile jointing strips.	m	65
FB1 22	SB2 20	MB3 23	
	80 x 200mm Barge boards fixed to roof timbers with brass screws and 38 x 50 x 114mm softwood blocking pieces including 'Chromaprep' H-profile jointing strips.	m	90
FB1 30	SB2 30	MB3 30	
Carried to Collection		R	

				Unit	Quantity	Rate	TANDANANI SSS Amount
<u>DOORS ETC</u>							
<u>Wrought meranti doors:</u>							
3	44mm Framed, ledged and braced batten door 813 x 2032mm high with 22mm tongued and grooved V-jointed one side vertical boarding .			No	3		
FB1	1	SB2	1	MB3	1		
Carried to Collection						R	

		TANDANANI SSS
		Amount
<u>BILL NO. 3</u>		
<u>CARPENTRY AND JOINERY</u>		
<u>COLLECTION</u>		
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				TANDANANI SSS											
	Unit	Quantity	Rate	Amount											
<u>SECTION NO. 2</u>															
<u>REPAIRS AND RENOVATIONS</u>															
<u>BILL NO. 4</u>															
<u>IRONMONGERY</u>															
<table><tr><td><u>Key:</u></td><td><u>Location Description:</u></td></tr><tr><td>Un/A</td><td>Unallocated</td></tr><tr><td>FB1</td><td>Block 1 Female</td></tr><tr><td>SB2</td><td>Block 2 Staff</td></tr><tr><td>MB3</td><td>Block 3 Male</td></tr></table>						<u>Key:</u>	<u>Location Description:</u>	Un/A	Unallocated	FB1	Block 1 Female	SB2	Block 2 Staff	MB3	Block 3 Male
<u>Key:</u>	<u>Location Description:</u>														
Un/A	Unallocated														
FB1	Block 1 Female														
SB2	Block 2 Staff														
MB3	Block 3 Male														
<u>SUPPLEMENTARY PREAMBLES</u>															
<u>Finishes to ironmongery:</u>															
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.															
<u>Descriptions:</u>															
Descriptions of ironmongery shall be deemed to include for fixing to wood, aluminium and steel.															
<u>HINGES, BOLTS, ETC</u>															
<u>Double washered butt hinges:</u>															
1	100 x 75mm Brass heavy duty butt hinge with brass pin and stainless steel washers.	No	9												
	FB1 3 SB2 3 MB3 3														
<u>LOCKS</u>															
2	'Assa Abloy' CZ6922452SC or similar approved three-lever lockset.	No	3												
	FB1 1 SB2 1 MB3 1														
<u>LETTERS, NAMEPLATES, ETC</u>															
<u>3mm Thick x 32mm high clear perspex signs with white painted numerals or letters, countersunk tap screwed to steel door frame</u>															
3	Door number plate with twenty five numerals.	No	9												
	SB2 4 MB3 5														
<u>SUNDRIES</u>															
4	38mm Diameter rubber door stop.	No	3												
	FB1 1 SB2 1 MB3 1														
Carried to Collection				R											

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
5	40mm Diameter x 3mm thick clear perspex key tag with black painted background with 10mm high reverse engraved and white painted Helvetica or similar approved Medium numerals holed for and fitted with 22mm diameter split key ring.	No	3		
	FB1 1 SB2 1 MB3 1				
	<u>GRAB RAILS, ETC</u>				
	<u>'Franke' or Similar approved:</u>				
6	32mm Diameter Grade 304 stainless steel cistern and flush valve back rail (code: CNTXBR), size 750 x 260mm, plugged.	No	2		
	FB1 1 SB2 1				
7	32mm Diameter Grade 304 stainless steel fold down paraplegic grab rail (code: CNTX70B), size 850 x 100 x 249mm, plugged.	No	2		
	FB1 1 SB2 1				
8	32mm Diameter Grade 304 stainless steel angle bar grab rail (code: CNTX700A), size 618 x 95 x 255mm.	No	2		
	FB1 1 SB2 1				
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>'Assa Abloy' or equal and approved single sided stainless steel signs plugged to brickwork or fixed to timber doors:</u>				
9	SS5066-06SSE15 with 'BOYS TOILETS' sign.	No	1		
	MB3 1				
10	SS5066-06SSE10 with 'GIRLS TOILETS' sign.	No	1		
	FB1 1				
11	SS5066-06SSE14 with 'DISABLED TOILETS' sign.	No	2		
	FB1 1 SB2 1				
12	SS5066-06SSE15 with 'MALE STAFF TOILETS' sign.	No	1		
	SB2 1				
13	SS5066-06SSE11 with 'FEMALE STAFF TOILETS' sign.	No	1		
	FB1 1				
Carried to Collection				R	

BILL NO. 4
IRONMONGERY
COLLECTION

TANDANANI SSS
Amount

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TANDANANI SSS

Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>REPAIRS AND RENOVATIONS</u>			
<u>BILL NO. 5</u>			
<u>METALWORK</u>			
<u>Key:</u>	<u>Location Description:</u>		
Un/A	Unallocated		
FB1	Block 1 Female		
SB2	Block 2 Staff		
MB3	Block 3 Male		
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions:</u>			
Descriptions of bolts shall be deemed to include nuts and washers.			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.			
Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described.			
Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres.			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<u>Welded screens and gates:</u>			
1	Single gate 1000 x 2100mm high of 50 x 50 X 2mm hollow section frame and two transomes, filled in with 10mm diameter diagonal bars at 100mm centres and fitted with a pair of suitable hinges bolted to wall and with 200mm locking bolt welded on.		
	No	6	
			FB1 2 SB2 2 MB3 2
<u>Mild Steel</u>			
2	100 x 50 x 50 x 2mm Cold rolled lipped channel.		
	m	9	
			FB1 3 SB2 3 MB3 3
3	6mm Diameter hole drilled through side of lipped channel for bolts.		
	No	6	
			FB1 2 SB2 2 MB3 2
Carried to Collection			
		R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
4	Door size 765 x 1680mm high formed of 20 x 20mm hollow square section frame and middle ledge welded at angles and intersections, covered on one side with 0,6mm galvanised sheeting pressed to shape with edges lapped around and rivetted to frame at 300mm centres, fitted with and including 25mm diameter x 2120mm long pipe support welded on including finishing smooth on all exposed edges.	No	3		
	FB1 1 SB2 1 MB3 1				
5	150mm Long lockable padbolt welded on.	No	6		
	FB1 2 SB2 2 MB3 2				
Carried to Collection				R	

		TANDANANI SSS	
		Amount	
<u>BILL NO. 5</u> <u>METALWORK</u> <u>COLLECTION</u>		Page No	
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>REPAIRS AND RENOVATIONS</u>				
<u>BILL NO. 6</u>				
<u>PLASTERING</u>				
<u>Key:</u>				
Un/A	<u>Location Description:</u>			
FB1	Unallocated			
SB2	Block 1 Female			
MB3	Block 2 Staff			
	Block 3 Male			
<u>SCREEDS</u>				
<u>3:1 Cement plaster screeds (Class 1) steel trowelled, on concrete:</u>				
1	30mm Thick on floors.	m ²	698	
	FB1 76 SB2 275 MB3 347			
<u>INTERNAL PLASTER</u>				
<u>4:1 Cement plaster steel trowelled, on brickwork:</u>				
2	On walls in patches.	m ²	103	
	FB1 13 SB2 60 MB3 30			
3	On narrow widths..	m ²	22	
	FB1 4 SB2 8 MB3 10			
<u>EXTERNAL PLASTER</u>				
<u>4:1 Cement plaster wood floated, on brickwork:</u>				
4	On walls in patches.	m ²	125	
	FB1 11 SB2 17 MB3 97			
5	On narrow widths.	m ²	10	
	Un/A 4 FB1 1 MB3 5			
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>				
6	30 x 3mm Flat section brass dividing strip between different floor finishes.	m	12	
	FB1 3 SB2 4 MB3 5			
<u>FIRE APPLIANCES, ETC</u>				
7	4,5 Kg Carbon dioxide fire estinguisher including back board, plugged and screwed.	No	12	
	FB1 3 SB2 4 MB3 5			
Carried To Section Summary				
			R	

				Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>							
<u>REPAIRS AND RENOVATIONS</u>							
<u>BILL NO. 8</u>							
<u>PLUMBING AND DRAINAGE</u>							
<u>Key:</u>		<u>Location Description:</u>					
Un/A		Unallocated					
FB1		Block 1 Female					
SB2		Block 2 Staff					
MB3		Block 3 Male					
<u>SUPPLEMENTARY PREAMBLES</u>							
<u>Fixing of pipes:</u>							
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level.							
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls, etc. casting in, building in or suspending not exceeding 1m below suspension level							
<u>RAINWATER DISPOSAL</u>							
<u>'Marley Vynadeep' or equal and approved uPVC gutters and rainwater pipes:</u>							
1	125 x 87mm Eaves gutters in single lengths fixed to fibre cement fascia with uPVC fascia brackets at 600mm centres.			m	66		
	FB1 23	SB2 20	MB3 23				
2	Extra over eaves gutter for stopped end.			No	10		
	FB1 2	SB2 4	MB3 4				
3	Extra over eaves gutter for outlet for 88mm diameter pipe.			No	10		
	FB1 2	SB2 4	MB3 4				
4	88mm Diameter rainwater pipes fixed to wall with and including uPVC pipe clips at 900mm centres.			m	50		
	FB1 10	SB2 20	MB3 20				
5	Extra over rainwater pipe for swan neck ends.			Pairs	10		
	FB1 2	SB2 4	MB3 4				
6	Extra over rainwater pipe for shoe.			No	10		
	FB1 2	SB2 4	MB3 4				
Carried to Collection						R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>WATER SUPPLIES</u>					
<u>PE 100 PN 12.5 HDPE pressure pipes with approved compression fittings:</u>					
7	25mm Pipes laid in and including trenches not exceeding 1m deep. Un/A 15	m	15		
<u>Extra over PE 100 PN 12.5 HDPE pressure pipes for PN16 compression fittings:</u>					
8	25mm Adaptor coupling. Un/A 6	No	6		
9	25mm Bend. Un/A 5	No	5		
10	63 x 25mm Saddle with and including coupling to 25mm HDPE pipe. Un/A 4	No	4		
<u>Class 12 uPVC socketed pressure pipes:</u>					
11	50mm Pipes laid in and including trenches not exceeding 1m deep. Un/A 38	m	38		
12	50mm Pipes laid in and including trenches not exceeding 1m deep under floors or paving. Un/A 13	m	13		
<u>Extra over class 12 uPVC socketed pressure pipes for class 16 uPVC pressure fittings:</u>					
13	50mm End cap. Un/A 3	No	3		
14	63 x 50mm Adaptor coupling. Un/A 1	No	1		
15	50mm Bend. Un/A 8	No	8		
16	50mm Tee. Un/A 3	No	3		
<u>Galvanised steel pipes with screwed and socketed joints:</u>					
17	50mm Pipes. Un/A 12	m	12		
18	100mm Pipes. Un/A 12	m	12		
<u>Extra over galvanised steel pipes with screwed and socketed joints for steel fittings:</u>					
19	50mm Bend. Un/A 3	No	3		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
20	50mm BSP adaptor. Un/A 2	No	2		
21	100mm Bend. Un/A 2	No	2		
22	50mm Flanged coupling. Un/A 4	No	4		
<u>TAPS, VALVES, ETC</u>					
23	25mm 'Cobra' 121-25 brass stoptap or similar approved. Un/A 3	No	3		
24	50mm Brass heavy duty fullway gate valve. Un/A 1	No	1		
25	100mm Brass heavy duty fullway gate valve. Un/A 1	No	1		
<u>Testing:</u>					
26	Testing water pipe system. MB3 1	Item			1 500 00
<u>Pit Ventilation:</u>					
27	110mm PE100HDPE pipes. FB1 21 SB2 18 MB3 18	m	57		
28	Galvanised steel 'Whirlyvent' turbine ventilator with 100mm throat diameter mounted on HDPE pipe (pipe elsewhere). FB1 6 SB2 4 MB3 6	No	16		
29	Extra over turbine ventilator for black epoxy powder coated finish. FB1 6 SB2 4 MB3 6	No	16		
<u>'Atlas Plastics':</u>					
30	570 400mm 'Christy' (code 382AP) wash hadn basin with two tapholes bolted to wall with and including galvanised bracket and four 10mm bolts or similar FB1 4 SB2 2 MB3 4	No	10		
31	'VIP 200 Inc' or equal and approved moulded polythylene WC pedestal with incorporated seat and flap (code 222AP) including foot piece and 'VIP 200 inlet funnel' (code 224AP) or similar approved. FB1 2 SB2 2 MB3 2	No	6		
Carried to Collection				R	

BILL NO. 8
PLUMBING AND DRAINAGE
COLLECTION

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				Unit	Quantity	Rate	TANDANANI SSS Amount
<u>SECTION NO. 2</u>							
<u>REPAIRS AND RENOVATIONS</u>							
<u>BILL NO. 9</u>							
<u>GLAZING</u>							
<u>Key:</u>		<u>Location Description:</u>					
Un/A		Unallocated					
FB1		Block 1 Female					
SB2		Block 2 Staff					
MB3		Block 3 Male					
<u>GLAZING TO STEEL WITH PUTTY</u>							
<u>6,38mm Normal strength clear laminated safety glass:</u>							
1	Panes exceeding 0.1m2 and not exceeding 0.5m2.			m²	10		
	FB1	3	SB2 3 MB3 4				
Carried To Section Summary						R	

	Unit	Quantity	Rate	TANDANANI SSS Amount
<u>SECTION NO. 2</u> <u>REPAIRS AND RENOVATIONS</u> <u>BILL NO. 10</u> <u>PAINTWORK</u>				
<u>Key:</u> Un/A FB1 SB2 MB3	<u>Location Description:</u> Unallocated Block 1 Female Block 2 Staff Block 3 Male			
<u>SUPPLEMENTARY PREAMBLES</u> <u>General:</u> All work to be executed in strict accordance with the specifications of the paint manufacturer. Primers and first coats may be thinned in accordance with the paint specifications of the paint manufacturer to aid the absorption of the paint. All surfaces must be sound, clean and have a moisture content of less than 8% for walls generally and 3% for slabs/screeds, etc. <u>PREPATORY WORK TO PREVIOUSLY PAINTED SURFACES</u> <u>Previously painted plastered surfaces:</u> Surfaces shall be thoroughly sanded and washed down to remove dirt and other contaminants and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler, and sanded smooth. In the case of previously lime washed surfaces, completely remove all limewash if possible or at least wire brush and scrape down to achieve a 'grey state' exposure of the substrate and apply filler as indicated. <u>Previously painted galvanised metal surfaces:</u> Surfaces shall be thoroughly sanded and cleaned down to remove dirt and other contaminants and sanded lightly to provide a key for subsequent coats. Blistered or peeling paint shall be completely removed down to bare metal and any rust encountered shall be removed and bare metal areas cleaned with a suitable galvanised iron cleaner and spot primed with a galvanised metal primer.				
Carried to Collection			R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>PAINTWORK, ETC TO NEW WORK</u>					
<u>ON FIBRE-CEMENT BOARD SURFACES</u>					
<u>Prepare surfaces and apply one coat Plascon Bonding Liquid and two coats Plascon Professional Superior Low Sheen acrylic emulsion paint or similar approved:</u>					
1	On fascias and barge boards, including priming joint strips.	m ²	74		
	FB1 24 SB2 25 MB3 25				
<u>ON METAL SURFACES</u>					
<u>Prepare surfaces and apply one coat Plascon Galvanised Iron Primer and two coats Plascon Velvaglo water-based enamel paint on galvanised steel or similar approved:</u>					
2	On gates, burglar screens etc (both sides measured over full flat area).	m ²	62		
	FB1 14 SB2 24 MB3 24				
<u>ON WOOD SURFACES</u>					
<u>Prepare surfaces and apply three coats Plascon Woodcare Exterior water-based varnish or similar approved:</u>					
3	On doors.	m ²	12		
	FB1 4 SB2 4 MB3 4				
<u>PAINTWORK, ETC TO PREVIOUSLY PAINTED SURFACES</u>					
<u>ON PREVIOUSLY PAINTED FLOATED PLASTERED SURFACES</u>					
<u>Prepare surfaces, spot prime with Plascon Professional Gypsum and Plaster Primer and apply two coats Plascon Professional Superior Low Sheen acrylic emulsion paint or similar approved:</u>					
4	On internal walls.	m ²	260		
	Un/A -111 FB1 252 MB3 119				
<u>ON PREVIOUSLY PAINTED METAL SURFACES</u>					
<u>Prepare surfaces, spot prime with Plascon Metalcare Primer, apply one coat Plascon Professional All Purpose Undercoat and two coats Plascon Velvaglo water-based enamel paint or similar approved:</u>					
5	On windows (both sides measured over full flat area).	m ²	19		
	FB1 6 SB2 6 MB3 7				
Carried to Collection				R	

		TANDANANI SSS Amount	
<u>BILL NO. 10</u> <u>PAINTWORK</u> <u>COLLECTION</u>		Page No	
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Amount**SECTION NO. 2****REPAIRS AND RENOVATIONS****SECTION SUMMARY**

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SECTION NO. 3
BUILDING WORKS

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>					
<u>BUILDING WORKS</u>					
<u>BILL NO. 1</u>					
<u>EARTHWORKS</u>					
<u>Key:</u>	<u>Location Description:</u>				
Un/A	Unallocated				
EE1	Single Classroom				
AA3	Admin Large				
CC2	DNC Medium				
DD3	Science Senior				
DD4	MPC				
DD5	Computer Lab				
HH1	Gate House				
HH5	HOD - Add				
Item	Item				
DD2	Library				
FF9	Undercover Play Area				
I	Item Location (Auto)				
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Carting away of excavated material:</u>					
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.					
<u>Nature of ground:</u>					
The nature of the ground is assumed to be gravel, therefore earth, but possibly interspersed with soft rock or hard rock.					
<u>Filling and layer work materials:</u>					
References such as 'G1', 'G2', etc and 'C1', 'C2', etc in descriptions of filling and layer work materials refer to corresponding references in the document 'Guidelines for Road Construction Materials. TRH 14 : 1985' compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter.					
Carried to Collection				R	

				TANDANANI SSS			
				Unit	Quantity	Rate	Amount
Testing:							
<u>Prices for filling are to include for all necessary density and other tests. Testing done on instruction of the principal agent or engineer shall be paid in accordance with the items provided hereafter, if the test results are compliant.</u>							
<u>EXCAVATIONS</u>							
<u>Excavation in earth not exceeding 2m deep:</u>							
1	Trenches			m ³	791		
	EE1 331	AA3 76	CC2 79				
	DD3 43	DD4 42	DD5 46				
	HH1 6	HH5 89	DD2 63				
	FF9 16						
2	Reduced levels under floors.			m ³	1 664		
	EE1 815	AA3 167	CC2 182				
	DD3 73	DD4 68	DD5 77				
	HH1 3	HH5 127	DD2 133				
	FF9 19						
3	Holes			m ³	31		
	AA3 25	CC2 6					
4	Thickening under surface beds etc			m ³	3		
	AA3 3						
<u>Extra over trench and hole excavations in earth for excavation in:</u>							
5	Soft rock.			m ³	108		
	EE1 57	CC2 13	DD3 6				
	DD4 5	DD5 6	HH5 11				
	DD2 10						
6	Hard rock.			m ³	121		
	EE1 57	AA3 13	CC2 13				
	DD3 6	DD4 5	DD5 6				
	HH5 11	DD2 10					
<u>Extra over all excavations for carting away:</u>							
7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor			m ³	2 422		
	EE1 1145	AA3 267	CC2 261				
	DD3 116	DD4 110	DD5 86				
	HH1 9	HH5 216	DD2 196				
	FF9 16						
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TANDANANI SSS

				Unit	Quantity	Rate	Amount
	<u>Risk of collapse of excavations:</u>						
8	Sides of trench and hole excavations not exceeding 1,5m deep.			m ²	2 200		
	EE1 779	AA3 315	CC2 278				
	DD3 136	DD4 76	DD5 146				
	HH1 26	HH5 237	DD2 199				
	FF9 8						
	<u>Keeping excavations free of water:</u>						
9	Keeping excavations free of all water other than subterranean water			Item			
	Item 1						
	<u>FILLING, ETC</u>						
	<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density:</u>						
10	Backfilling to trenches, holes, etc			m ³	105		
	EE1 80	CC2 9	DD5 6				
	HH1 1	FF9 9					
	<u>Filling of G7 earth filling supplied by the contractor, compacted to 98% Mod AASHTO density:</u>						
11	Under floors, paving, steps, etc.			m ³	882		
	EE1 392	AA3 109	CC2 99				
	DD3 39	DD4 39	DD5 47				
	HH1 1	HH5 68	DD2 76				
	FF9 12						
12	Backfilling to trenches, holes, etc.			m ³	767		
	EE1 260	AA3 241	CC2 51				
	DD3 28	DD4 45	DD5 28				
	HH1 3	HH5 66	DD2 45				
	<u>Filling of G5 natural gravel material supplied by the contractor, compacted to 95% Mod AASHTO density:</u>						
13	Under floors, paving, steps, etc			m ³	134		
	EE1 65	AA3 17	CC2 17				
	DD3 7	DD4 7	DD5 8				
	HH5 11	FF9 2					
	<u>Compaction of ground surfaces:</u>						
14	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density			m ²	2 908		
	EE1 1258	AA3 336	CC2 344				
	DD3 129	DD4 151	DD5 157				
	HH1 5	HH5 226	DD2 296				
	FF9 6						
	Carried to Collection					R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>WEED KILLERS, INSECTICIDES, ETC</u>					
<u>Soil insecticide in accordance with SANS 5859 applied by a registered pest control company under a 10 (ten) year guarantee:</u>					
15	Compaction of excavated ground surface under strip footings including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	1 054		
	EE1 441 AA3 130 CC2 112 DD3 57 DD4 43 DD5 62 HH1 7 HH5 118 DD2 84				
16	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	2 835		
	EE1 1258 AA3 336 CC2 345 DD3 131 DD4 151 DD5 344 HH1 5 HH5 226 FF9 39				
17	To bottoms and sides of trenches etc	m ²	2 553		
	EE1 779 AA3 420 CC2 317 DD3 124 DD4 171 DD5 182 HH1 22 HH5 355 DD2 183				
<u>TESTS</u>					
<u>Prescribed tests to determine degree of compaction or other properties of ground or filling:</u>					
18	Modified AASHTO Density test	No	198		
	EE1 64 AA3 26 CC2 18 DD3 18 DD4 19 DD5 9 HH1 4 HH5 16 DD2 24				
19	Founding material indicator test, including sample collection.	No	16		
	EE1 16				
<u>FOUNDATION WALL INSULATION</u>					
20	300 x 25mm Thick high density (32-36 kg/m ³) rigid extruded polystyrene 100% closed cell insulation board between brick walls and earth filling,	m	409		
	AA3 97 CC2 86 DD3 43 DD4 64 DD5 49 HH1 10 DD2 60				
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BILL NO. 1
EARTHWORKS
COLLECTION

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	Unit	Quantity	Rate	TANDANANI SSS Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>Key:</u> Un/A EE1 AA3 CC2 DD3 DD4 DD5 HH1 HH5 Item DD2 FF9 I	<u>Location Description:</u> Unallocated Single Classroom Admin Large DNC Medium Science Senior MPC Computer Lab Gate House HOD - Add Item Library Undercover Play Area Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u> <u>Costs of tests:</u> The costs of making, storing and testing of concrete test cubes shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Engineer. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Engineer. (Test cubes are measured separately). <u>Formwork:</u> Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before 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. Formwork to soffits of solid slabs, etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.				
Carried to Collection			R	

				TANDANANI SSS			
				Unit	Quantity	Rate	Amount
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.							
<u>Movement joints:</u>							
Formwork to edges of concrete at movement joints has been measured elsewhere, unless otherwise described.							
<u>UNREINFORCED CONCRETE</u>							
<u>15Mpa/19mm Concrete:</u>							
1	Filling to cavities of hollow brick walls and piers in foundations.			m ³	34		
	Un/A 4	EE1 17	AA3 3				
	DD3 2	DD4 2	HH5 3				
	DD2 3						
<u>15Mpa/19mm Concrete cast against excavated surfaces:</u>							
2	Surface blinding under strip footings.			m ³	54		
	EE1 22	AA3 6	CC2 5				
	DD3 3	DD4 2	DD5 6				
	HH5 6	DD2 4					
<u>REINFORCED CONCRETE</u>							
<u>15Mpa/19mm Concrete:</u>							
3	Filling to cavities of hollow brick walls and piers.			m ³	24		
	EE1 16	AA3 1	CC2 1				
	DD3 1	HH5 4	DD2 1				
4	Filling to cavities of hollow brick walls and piers in foundations			m ³	10		
	AA3 1	CC2 4	DD3 1				
	DD5 3	DD2 1					
<u>25Mpa/19mm Concrete:</u>							
5	Surface beds cast in panels on insulation.			m ³	194		
	EE1 86	AA3 23	CC2 26				
	DD3 9	DD4 9	DD5 11				
	HH5 15	DD2 15					
6	Surface beds cast in panels on waterproofing.			m ³	92		
	EE1 27	AA3 10	CC2 5				
	DD3 3	DD4 3	HH5 5				
	DD2 6	FF9 33					
Carried to Collection						R	

				Unit	Quantity	Rate	TANDANANI SSS Amount
7	Slabs.			m ³	28		
	AA3	1	DD3 7 DD4 7				
	DD5	7	HH1 1 DD2 5				
8	Bases.			m ³	11		
	AA3	10	CC2 1				
9	Isolated beams.			m ³	33		
	Un/A	8	EE1 11 AA3 3				
	CC2	5	DD3 1 DD4 1				
	DD5	1	HH5 2 DD2 1				
10	Columns in foundations.			m ³	2		
	Un/A	1	CC2 1				
11	Columns.			m ³	5		
	Un/A	3	CC2 2				
	<u>30Mpa/19mm Concrete cast against excavated surfaces:</u>						
12	Strip footings.			m ³	256		
	EE1	110	AA3 25 CC2 26				
	DD3	14	DD4 10 DD5 15				
	HH1	2	HH5 30 DD2 21				
	FF9	3					
	<u>TEST CUBES</u>						
13	Making and testing set of six 150 x 150 x 150mm concrete strength test cubes. (Provisional)			Sets	30		
	AA3	8	CC2 4 DD3 5				
	DD4	4	DD5 4 DD2 5				
	<u>CONCRETE SUNDRIES</u>						
	<u>Finishing top surface of concrete smooth with a wood float:</u>						
14	Surface beds, slabs, etc.			m ²	41		
	DD4	27	HH1 14				
	<u>Finishing top surface of concrete to non-slip surface with wood float and coarse hard grass broom:</u>						
15	Surface beds, etc to falls.			m ²	645		
	EE1	300	AA3 71 CC2 53				
	DD3	28	DD4 28 DD5 4				
	HH5	56	DD2 64 FF9 41				
Carried to Collection						R	

				TANDANANI SSS			
		Unit	Quantity	Rate	Amount		
<u>Floor insulation:</u>							
16	25mm Thick high density (32-36 kg/m²) rigid extruded polystyrene 100% closed cell insulation board in 600mm widths with tongue and groove joints on waterproofing (waterproofing elsewhere) under floors.	m²	1 204				
	Un/A 65 EE1 86 AA3 258						
	CC2 293 DD3 103 DD4 103						
	DD5 119 HH1 5 DD2 172						
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>							
<u>Rough formwork to sides:</u>							
17	Rectangular columns in foundaions	m²	11				
	Un/A 7 CC2 4						
18	Rectangular columns	m²	64				
	Un/A 45 CC2 19						
19	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	167				
	EE1 14 AA3 12 DD3 23						
	DD4 22 DD5 22 HH1 12						
	HH5 4 DD2 24 FF9 34						
<u>Rough formwork to soffits:</u>							
20	Slabs propped up exceeding 1,5m and not exceeding 3.5m high.	m²	16				
	AA3 8 HH1 8						
21	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 1,5m and not exceeding 3.5m high.	m²	191				
	DD3 24 DD4 23 DD5 119						
	HH1 8 DD2 17						
<u>Rough formwork to sides and soffits</u>							
22	Isolated beams propped up exceeding 1,5m and not exceeding 3,5m high.	m²	358				
	Un/A 69 EE1 131 AA3 30						
	CC2 43 DD3 14 DD4 14						
	DD5 16 HH5 26 DD2 15						
<u>MOVEMENT JOINTS ETC</u>							
<u>Two layers of three-ply malthoid in slip joints between horizontal concrete and brick surfaces including cement mortar bed:</u>							
23	Not exceeding 300mm wide.	m	103				
	DD3 26 DD4 25 DD5 22						
	HH1 11 DD2 19						
Carried to Collection				R			

					Unit	Quantity	Rate	TANDANANI SSS Amount
<u>Expansion joints with closed cell expanded polyethylene joint filler between vertical concrete and brick surfaces:</u>								
24	20mm Joints not exceeding 300mm high.				m	1 949		
	Un/A	46	EE1	804	AA3	179		
	CC2	200	DD3	102	DD4	125		
	DD5	94	HH1	9	HH5	249		
	DD2	141						
<u>REINFORCEMENT</u>								
<u>Mild steel reinforcement to structural concrete work:</u>								
25	Bars of varying diameters.				Tonnes	1.35		
	EE1	0.8	DD3	0.17	HH5	0.2		
	DD2	0.18						
26	12mm Diameter bars.				Tonnes	1.00		
	Un/A	1						
27	10mm Diameter bars.				Tonnes	0.90		
	Un/A	0.9						
28	8mm Diameter bars.				Tonnes	1.00		
	Un/A	1						
<u>High tensile steel reinforcement to structural concrete work:</u>								
29	Bars of varying diameters.				Tonnes	11.93		
	Un/A	2.68	EE1	1.6	AA3	3.58		
	CC2	1.94	DD3	0.15	DD4	1.23		
	DD5	0.3	HH5	0.32	DD2	0.13		
30	20mm Diameter bars.				Tonnes	1.00		
	Un/A	1						
31	16mm Diameter bars.				Tonnes	0.50		
	Un/A	0.5						
32	12mm Diameter bars.				Tonnes	1.00		
	Un/A	1						
33	10mm Diameter bars.				Tonnes	0.90		
	Un/A	0.9						
<u>Fabric reinforcement:</u>								
34	Type 245 fabric reinforcement in concrete surface beds, etc.				m ²	2 904		
	EE1	1258	AA3	329	CC2	345		
	DD3	131	DD4	124	DD5	242		
	HH1	13	HH5	226	DD2	236		
35	Type 193 fabric reinforcement in concrete surface beds, etc.				m ²	2		
	Un/A	2						
Carried to Collection							R	

		TANDANANI SSS Amount
<u>BILL NO. 2</u>		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>		
<u>COLLECTION</u>		
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				Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>							
<u>BUILDING WORKS</u>							
<u>BILL NO. 3</u>							
<u>PRECAST CONCRETE</u>							
<u>Key:</u>		<u>Location Description:</u>					
Un/A		Unallocated					
EE1		Single Classroom					
AA3		Admin Large					
CC2		DNC Medium					
DD3		Science Senior					
DD4		MPC					
DD5		Computer Lab					
HH1		Gate House					
HH5		HOD - Add					
Item		Item					
DD2		Library					
FF9		Undercover Play Area					
I		Item Location (Auto)					
 <u>PRECAST CONCRETE SILLS, COPINGS ETC</u>							
<u>Precast concrete sills in varying lengths not exceeding 1.1m, finished smooth on exposed surfaces including bedding, jointing and pointing:</u>							
1	340 x 85mm Thick overall window sills with 200mm wide weathered rebate in top and drip groove in bottom.			m	247		
EE1	111	AA3	25	CC2	29		
DD3	11	DD4	11	DD5	17		
HH1	4	HH5	24	DD2	15		
Carried To Section Summary							R

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 4</u> <u>MASONRY</u>				
<u>Key:</u> Un/A EE1 AA3 CC2 DD3 DD4 DD5 HH1 HH5 Item DD2 FF9 I	<u>Location Description:</u> Unallocated Single Classroom Admin Large DNC Medium Science Senior MPC Computer Lab Gate House HOD - Add Item Library Undercover Play Area Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick. <u>Hollow walls etc:</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. <u>Face bricks:</u> Bricks shall be ordered timeously to obtain uniformity in size and colour. <u>Pointing:</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc. <u>Wire Ties:</u> Walls in thicknesses of more than one skin (one brick walls and cavity walls) shall have wire ties at 1m centres horizontally in every third course. Wire ties shall be galvanised steel "Butterfly" type and of sufficient length to allow not less than 75mm of each end to be built into brickwork.				
Carried to Collection			R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Brickwork reinforcement:</u>					
<u>Galvanised brickwork reinforcement shall have corrosion resistance as per SANS2001-CM1 and SANS 935.</u>					
<u>SAMPLES</u>					
Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.					
<u>BRICKWORK IN FOUNDATIONS</u>					
<u>Brickwork of NFX (14MPa) clay bricks in class II mortar:</u>					
1	One brick walls including wire ties.	m ²	364		
	Un/A 38 EE1 94 AA3 28				
	CC2 19 DD3 9 DD4 10				
	DD5 24 HH5 37 DD2 16				
	FF9 89				
2	260mm Walls of two half brick skins including wire ties.	m ²	36		
	CC2 14 DD3 8 DD4 6				
	DD2 8				
3	285mm Hollow walls of two half brick skins including wire ties. Found	m ²	575		
	Un/A 65 EE1 235 AA3 48				
	CC2 52 DD3 27 DD4 27				
	DD5 25 HH1 6 HH5 48				
	DD2 42				
4	40mm Cut lining to concrete, including wall ties	m ²	1		
	Un/A 1				
5	340 x 340mm Hollow piers with half brick sides.	m	84		
	Un/A 4 EE1 38 AA3 8				
	CC2 2 DD3 4 DD4 7				
	DD5 4 HH1 1 HH5 7				
	DD2 3 FF9 6				
<u>BRICKWORK IN SUPERSTRUCTURE</u>					
<u>Brickwork of NFP bricks in class II mortar:</u>					
6	Piers and pilasters.	m ³	14		
	Un/A 1 AA3 4 CC2 1				
	DD4 3 DD5 2 FF9 3				
7	Half brick walls.	m ²	340		
	Un/A 156 AA3 162 CC2 13				
	DD3 7 DD4 2				
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
8	Half brick walls in beamfilling.	m ²	423		
	Un/A 108 EE1 162 AA3 15				
	CC2 27 DD3 17 DD4 19				
	DD5 18 HH5 30 DD2 27				
9	40mm Cut linings to concrete, including wall ties.	m ²	5		
	Un/A 5				
10	One brick walls including wire ties.	m ²	822		
	Un/A 50 EE1 376 AA3 38				
	CC2 82 DD3 38 DD4 17				
	DD5 52 HH5 114 DD2 55				
11	One brick walls in beamfilling including wire ties.	m ²	7		
	FF9 7				
12	One brick walls of two half brick skins with inner skin bagged and sealed, including wire ties.	m ²	6		
	Un/A 6				
13	285mm Hollow walls of two half brick skins including wire ties.	m ²	2 403		
	Un/A -12 EE1 1056 AA3 210				
	CC2 202 DD3 150 DD4 166				
	DD5 161 HH1 20 HH5 226				
	DD2 224				
14	260mm Walls of two half brick skins including wire ties.	m ²	69		
	CC2 21 DD3 9 DD4 9				
	DD5 18 DD2 12				
15	340 x 340mm Hollow piers with half brick sides.	m	268		
	EE1 158 DD3 15 DD4 15				
	HH5 30 DD2 12 FF9 38				
<u>LOADBEARING BRICKWORK</u>					
<u>Brickwork of NFX solid clay bricks (14 Mpa nominal compressive strength) in class II mortar in loadbearing walls:</u>					
16	One brick walls including wire ties.	m ²	10		
	Un/A 10				
17	One and a half brick walls including wire ties.	m ²	6		
	Un/A 6				
<u>BRICKWORK SUNDRIES</u>					
18	Splayed mortar fillet one course high in 50mm cavity.	m	118		
	AA3 25 CC2 29 DD3 6				
	DD4 11 DD5 17 HH5 20				
	DD2 10				
Carried to Collection				R	

				TANDANANI SSS			
				Unit	Quantity	Rate	Amount
19	Closing 65mm cavity of hollow wall vertically with brickwork half brick wide.			m	772		
	EE1 402	AA3 78	CC2 97				
	DD3 24	DD4 24	DD5 36				
	HH1 8	HH5 66	DD2 37				
20	Closing 50mm cavity of hollow wall horizontally with one course of brickwork.			m	38		
	AA3 10	CC2 8	DD5 20				
21	Extra over for rough segmental arch in 270mm brick wall, 3600mm span and 255mm high, of one brick on edge header ring, including support centre.			No	1		
	DD2 1						
	<u>Cavity wall insulation:</u>						
22	25mm Thick high density (32-36 kg/m ²) rigid extruded polystyrene 100% closed cell insulation board in 500mm widths with tongue and groove joints, secured to outer face of inner skin of hollow walls along edges with and including wire ties.			m ²	2 103		
	Un/A -12	EE1 1056	AA3 171				
	DD3 150	DD4 166	DD5 102				
	HH1 20	HH5 226	DD2 224				
23	Ditto, but secured to outface of walls in foundations.			m ²	272		
	EE1 193	AA3 39	HH5 40				
	<u>Joint forming material in movement joints:</u>						
24	12mm Bitumen impregnated fibre board built in vertically through brick walls not exceeding 300mm wide.			m	12		
	CC2 12						
	<u>2,8mm Hot dip galvanised (SANS 935) brickwork reinforcement with 300mm laps:</u>						
25	75mm Wide reinforcement built in horizontally.			m	28 913		
	Un/A 252	EE1 14295	AA3 2591				
	CC2 2429	DD3 1910	DD4 215				
	DD5 1584	HH5 3007	DD2 2630				
26	150mm Wide reinforcement built in horizontally.			m	4 798		
	Un/A 126	EE1 2214	AA3 256				
	CC2 330	DD3 277	DD4 234				
	DD5 294	HH5 673	DD2 394				
27	150mm Wide reinforcement built in horizontally in foundations.			m	2 651		
	Un/A 90	EE1 1104	AA3 324				
	DD3 192	DD4 90	DD5 142				
	HH5 431	DD2 278					
Carried to Collection						R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
28	230mm Wide reinforcement built in horizontally in foundations.	m	5 524		
	Un/A 457 EE1 2766 AA3 566				
	CC2 168 DD3 314 DD4 187				
	HH5 569 DD2 497				
	<u>Prestressed fabricated concrete lintels including necessary temporary supports:</u>				
29	108 x 70mm Lintels in lengths not exceeding 3m.	m	496		
	Un/A 6 EE1 192 AA3 59				
	CC2 63 DD3 24 DD4 24				
	DD5 27 HH5 52 DD2 49				
30	108 x 70mm Lintels in lengths exceeding 3m and not exceeding 4,5m.	m	4		
	CC2 4				
31	148 x 70mm Lintels in lengths not exceeding 3m.	m	431		
	Un/A 6 EE1 192 AA3 45				
	CC2 60 DD3 18 DD4 18				
	DD5 27 HH5 36 DD2 29				
32	148 x 70mm Lintels in lengths exceeding 3m and not exceeding 4,5m.	m	4		
	CC2 4				
	<u>Turning pieces to lintels, etc:</u>				
33	110mm Wide turning piece.	m	277		
	EE1 144 AA3 28 CC2 23				
	DD3 12 DD4 14 DD5 14				
	HH5 28 DD2 14				
34	220mm Wide turning piece.	m	239		
	EE1 120 AA3 37 CC2 12				
	DD3 17 DD4 17 DD5 17				
	HH1 2 HH5 4 DD2 13				
	<u>Galvanised hoop iron cramps, ties, etc:</u>				
35	32 x 1,2mm Roof tie 2m girth bent double with one end built into brickwork and other end fixed to timber.	No	504		
	EE1 256 AA3 52 CC2 48				
	DD3 26 DD4 26 DD5 10				
	HH5 48 DD2 38				
36	32 x 1,2mm Roof tie 2m girth bent double with one end cast into concrete and other end fixed to timber.	No	248		
	EE1 128 AA3 18 CC2 30				
	DD3 13 DD4 13 DD5 10				
	HH5 24 DD2 12				
37	30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other en built into brickwork in foundations	No	316		
	Un/A 172 CC2 144				
Carried to Collection				R	

				Unit	Quantity	Rate	Amount
<u>Air bricks, breeze blocks, etc:</u>							
38	3,5MPa Precast concrete grille block size 190 x 190 x 190mm finished smooth on exposed surfaces including bedding, jointing and pointing.			No	144		
	EE1 64	AA3 16	DD3 16				
	DD4 8	DD5 8	HH5 16				
	DD2 16						
<u>FACE BRICKWORK</u>							
<u>'Corobrik Firelight Travertine FBX' face bricks pointed with recessed horizontal and vertical joints or similar approved:</u>							
39	Extra over brickwork for face brickwork.			m ²	473		
	Un/A 50	EE1 174	AA3 29				
	CC2 37	DD3 27	DD4 25				
	DD5 20	HH1 6	HH5 65				
	DD2 40						
40	Extra over brickwork for face brickwork in foundations			m ²	382		
	Un/A 6	EE1 187	AA3 33				
	CC2 40	DD3 22	DD5 20				
	HH1 4	HH5 40	DD2 30				
41	Extra over brickwork to piers and pilasters for face brickwork.			m ²	62		
	Un/A 2	EE1 17	AA3 8				
	CC2 1	DD3 2	DD4 3				
	DD5 2	HH5 4	DD2 2				
	FF9 21						
42	Extra over brickwork to piers and pilasters for face brickwork in foundations.			m ²	39		
	Un/A 5	EE1 15	AA3 3				
	CC2 2	DD3 1	DD4 5				
	DD5 4	HH5 3	DD2 1				
43	40mm Cut lining to concrete, including wall ties			m ²	5		
	Un/A 5						
44	Half brick walls pointed on both sides.			m ²	41		
	Un/A 40	DD3 1					
45	220mm Copings on top of one brick walls pointed on top and one side.			m	338		
	Un/A 56	EE1 144	AA3 37				
	DD3 17	DD4 15	DD5 21				
	HH5 29	DD2 19					
46	Fair cutting and fitting around pipe not exceeding 100mm external diameter.			No	33		
	AA3 3	DD3 26	DD4 2				
	DD2 2						
Carried to Collection						R	

					Unit	Quantity	Rate	TANDANANI SSS Amount
47	Extra over brickwork for face brickwork.				m ²	2 551		
	Un/A	59	EE1	1062	AA3	236		
	CC2	262	DD3	137	DD4	132		
	DD5	145	HH1	19	HH5	290		
	DD2	209						
	<u>Face brick (Allow a PC amount of R 9000.00 per 1000 bricks supplied and delivered to site) pointed with recessed horizontal and vertical joints:</u>							
48	Extra over brickwork to piers and pilasters for face brickwork.				m ²	381		
	Un/A	15	EE1	192	AA3	32		
	CC2	12	DD3	18	DD4	27		
	DD5	21	HH1	1	HH5	48		
	DD2	15						
49	40mm Cut linings to concrete, including wall ties.				m ²	5		
	Un/A	5						
50	Half brick walls pointed on both sides.				m ²	88		
	Un/A	16	AA3	70	DD3	1		
	DD4	1						
51	220mm Copings on top of one brick walls pointed on top and both sides.				m	67		
	Un/A	21	CC2	15	DD4	12		
	DD5	19						
52	220mm Brick-on-edge sill sloping and slightly.				m	253		
	EE1	144	AA3	24	CC2	23		
	DD3	12	DD4	14	DD5	14		
	HH1	2	HH5	10	DD2	10		
	<u>Fair arches, recesses, etc of face bricks (Allow a PC amount of R 9000.00 per 1000 bricks supplied and delivered to site), pointed with recessed joints or similar approved:</u>							
53	Extra over brickwork for 800mm diameter bullseye arch in one brick wall, of one brick-on-edge header course ring(s), pointed in opening and both sides, including support centre				No	1		
	Un/A	1						
	<u>FIBRE-CEMENT WINDOW SILLS</u>							
	<u>Natural grey fibre cement sill in single lengths bedded in class II mortar including metal fixing lugs, etc:</u>							
54	15 x 150mm Wide sills set flat and slightly projecting.				m	15		
	AA3	5	HH1	2	HH5	8		
Carried to Collection							R	

						Unit	Quantity	Rate	TANDANANI SSS Amount
55	15 x 175mm Wide sills set flat and slightly projecting.					m	251		
	EE1	144	AA3	24	CC2	23			
	DD3	12	DD4	12	DD5	14			
	HH1	2	HH5	10	DD2	10			
Carried to Collection								R	

BILL NO. 4
MASONRY
COLLECTION

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					Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>								
<u>BUILDING WORKS</u>								
<u>BILL NO. 5</u>								
<u>WATERPROOFING</u>								
<u>Key:</u>		<u>Location Description:</u>						
Un/A		Unallocated						
EE1		Single Classroom						
AA3		Admin Large						
CC2		DNC Medium						
DD3		Science Senior						
DD4		MPC						
DD5		Computer Lab						
HH1		Gate House						
HH5		HOD - Add						
Item		Item						
DD2		Library						
FF9		Undercover Play Area						
I		Item Location (Auto)						
 <u>DAMPPROOFING OF WALLS AND FLOORS</u>								
<u>One layer 375µm embossed polyethylene damp proof course (SANS 952- 1985 Type B):</u>								
1	In walls vertically at reveals.				m²	209		
	EE1	94	AA3	78	CC2	15		
	DD3	1	DD4	7	DD5	4		
	HH1	1	HH5	7	DD2	2		
2	In walls.				m²	514		
	Un/A	33	EE1	245	AA3	55		
	CC2	37	DD3	19	DD4	22		
	DD5	17	HH1	6	HH5	45		
	DD2	35						
<u>One layer 250 micron USB polyethylene waterproof sheeting (SANS 952-1985 Type C) laid with a minium 200mm overlaps and sealed with pressure sensitive tape:</u>								
3	Under surface beds.				m²	2 738		
	EE1	982	AA3	345	CC2	350		
	DD3	141	DD4	141	DD5	167		
	HH1	5	HH5	186	DD2	421		
 Carried to Collection								
							R	

				Unit	Quantity	Rate	TANDANANI SSS Amount
<u>JOINT SEALANTS ETC</u>							
<u>Approved polyurethane sealing compound including primer, etc:</u>							
4	In joints between steel door or window frames and face brickwork or concrete.			m	1 100		
	EE1 547	AA3 56	CC2 159				
	DD3 41	DD4 41	DD5 71				
	HH1 16	HH5 95	DD2 74				
5	In joints between precast concrete window sills and face brickwork or plaster.			m	610		
	EE1 282	AA3 25	CC2 85				
	DD3 32	DD4 28	DD5 50				
	HH1 4	HH5 60	DD2 44				
<u>Approved polyurethane sealing compound including bond breaker, primer, etc and raking out expansion joint filler as necessary:</u>							
6	12 x 12mm In expansion joints in walls.			m	62		
	Un/A 46	CC2 6	HH1 10				
7	20 x 20mm In expansion joints in floors with and including closed cell expanded polyethylene backing cord.			m	1 903		
	EE1 804	AA3 179	CC2 200				
	DD3 102	DD4 125	DD5 94				
	HH1 9	HH5 249	DD2 141				
Carried to Collection						R	

TANDANANI SSS
Amount

BILL NO. 5
WATERPROOFING
COLLECTION

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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 6</u>				
<u>ROOF COVERINGS</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
EE1	Single Classroom			
AA3	Admin Large			
CC2	DNC Medium			
DD3	Science Senior			
DD4	MPC			
DD5	Computer Lab			
HH1	Gate House			
HH5	HOD - Add			
Item	Item			
DD2	Library			
FF9	Undercover Play Area			
I	Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u>				
The roof sheeting system shall be manufactured and supplied by an approved reputable company and installed in strict accordance with the manufacturer's specifications. Fixing of all roof sheeting shall be in accordance with the manufacturer's approved instruction book. The manufacturer shall comply with the ISO 9002 Quality Management System.				
An approved five-year written guarantee of site workmanship and watertightness shall be issued by the contractor after final inspection of the roof sheeting.				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,8mm Thick Z200 spelter galvanised 'IBR' profiled steel roof sheeting with 'Chromadek' finish of approved standard colour on one side and standard grey backing finish on other side and accesories, fixed in strict accordance with the manufacturer's instructions to timber purlins at not exceeding 1200mm centres:</u>				
1	Roof covering with pitches not exceeding 25 degrees in single sheets not exceeding 13m.	m²	3 902	
	EE1 1718 AA3 433 CC2 417			
	DD3 191 DD4 194 DD5 214			
	HH5 325 DD2 335 FF9 75			
2	Ridge flashing 462mm girth, three times bent along girth.	m	327	
	EE1 139 AA3 36 CC2 33			
	DD3 16 DD4 15 DD5 18			
	HH5 26 DD2 25 FF9 19			
Carried to Collection				
				R

				TANDANANI SSS			
		Unit	Quantity	Rate	Amount		
3	Hip flashing 462mm girth, three times bent along girth. FF9 19	m	19				
4	Valley flashing 462mm girth, three times bent along girth. AA3 14 DD2 10	m	24				
5	Narrow and broad flute serrated closers. EE1 279 AA3 72 DD3 31 DD4 31 HH5 53 DD2 49	m	515				
6	Narrow flute moulded polyethylene filler blocks to suit profile. EE1 279 AA3 112 CC2 65 DD3 31 DD4 31 DD5 71 HH5 53 DD2 35	m	677				
7	Broad flute moulded polyethylene filler blocks to suit profile. EE1 272 AA3 72 CC2 65 DD3 31 DD4 31 DD5 36 DD2 68	m	575				
<u>ROOF INSULATION</u>							
<u>'Sisalation FR430' double sided fire retardent heavy industrial grade reinforced aluminium foil insulation sheeting:</u>							
8	Insulation sheeting drawn tautly over rafters and fixed concurrently with purlins with minimum 150mm laps. EE1 1718 AA3 433 CC2 417 DD3 191 DD4 194 DD5 377 HH5 325 DD2 335 FF9 191	m²	4 181				
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BILL NO. 6
ROOF COVERINGS
COLLECTION

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<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 7</u> <u>CARPENTRY AND JOINERY</u>				
<u>Key:</u> Un/A EE1 AA3 CC2 DD3 DD4 DD5 HH1 HH5 Item DD2 FF9 I	<u>Location Description:</u> Unallocated Single Classroom Admin Large DNC Medium Science Senior MPC Computer Lab Gate House HOD - Add Item Library Undercover Play Area Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u> <u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u> Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Engineer. Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered. Pre-fabricated timber roof trusses shall comply with the requirements of SABS Specification 0163 and be constructed of South African pine as described in clause 8.5 to the designs shown on the manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle. Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber. The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.				
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	Unit	Quantity	Rate	TANDANANI SSS Amount
In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralizing paint. Approval of pre-fabricated roofing systems, whether measured as an alternative or not shall be subject to the following requirements: (a) The manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Institute for Timber Construction. (b) A polyester print, size A1 having a minimum thickness of 0.5mm shall be submitted by the contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services. (c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Department panel for structural work. (d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender. <u>The following minimum information shall be shown on the drawings:</u> (a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations. (b) Bracing as recommended by the Institute for Timber Construction. (c) Sizes and grading of the timber components. (d) Truss sizes, e.g. height of ridge or angle of pitch. (e) Plate sizes for every construction point. (Code numbers only are deemed insufficient). (f) Separate connection details for hip, valley and jack rafters. (g) Maximum spacings for purlins and bracing to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5. (h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent. The Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that.				
Carried to Collection			R	

	Unit	Quantity	Rate	TANDANANI SSS Amount
'The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual 'THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES' Issued by the National Timber Research Institute and the Institute for Timber Construction'. <u>The following is applicable in respect of plate nailed timber roof trusses:</u> Trusses are at maximum 1250mm centres. Roof covering is 0.8mm 'Chromadek' Z200 galvanised steel 'IBR' profiled roof sheeting on timber purlins. Ceilings are 6mm fibre cement on 38 x 50mm branderling at 400mm centres or 6mm fibre-cement ceilings on 38 x 50mm branderling at 450mm centres. There is also expanded metal mesh on the ceiling of the science laboratory. Exposed members of trusses at eaves overhangs to have wrought faces. Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account. Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect and / or taken on site before design or fabrication commences. <u>Joinery:</u> Descriptions of hardwood joinery shall be deemed to include punching nail heads and countersinking screw heads and filling with matching wood filler and sinking and pelleting heads and nuts of bolts. <u>Fixing:</u> Items described as nailed shall be deemed to be fixed with non-corrosive nails or shot pins to brickwork or concrete at not exceeding 450mm centres. Items described as plugged shall be deemed to include screwing with non-coorsive screws to fibre, plastic or metal plugs at not exceeding 450mm centres.				
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				Unit	Quantity	Rate	TANDANANI SSS Amount
<u>ROOFS ETC</u>							
<u>Sawn softwood grade S5:</u>							
1	25 x 228mm Splayed valley boards.			m	28		
	AA3 12	DD5 8	DD2 8				
2	38 x 114mm Wall plates.			m	753		
	EE1 268	AA3 118	CC2 99				
	DD3 43	DD4 43	DD5 51				
	HH5 50	DD2 54	FF9 27				
3	50 x 76mm Trimmers.			m	444		
	EE1 195	AA3 38	CC2 50				
	DD3 24	DD4 25	DD5 24				
	HH5 49	DD2 39					
4	50 x 76mm Purlins.			m	4 344		
	EE1 1951	AA3 553	CC2 404				
	DD3 217	DD4 217	DD5 244				
	HH5 370	DD2 388					
5	76 x 76mm Splayed purlins.			m	621		
	EE1 279	AA3 58	CC2 65				
	DD3 31	DD4 31	DD5 35				
	HH5 53	DD2 36	FF9 33				
6	76 x 152mm Beams.			m	271		
	EE1 144	CC2 15	DD3 19				
	DD4 19	DD5 31	HH5 43				
<u>Plate nailed timber roof trusses, etc:</u>							
7	Extra over purlins for 'eCO Hurricane' clips fixed with 'Mitek Permfix - Blue' nails.			No	8 736		
	EE1 4096	AA3 1008	CC2 744				
	DD3 416	DD4 416	DD5 512				
	HH5 768	DD2 720	FF9 56				
8	Roof construction to double pitched roof 14,755 x 10,135m overall on plan, having a 12 degree pitch and 600mm overhang at eaves, including plate nailed timber roof trusses, jack rafters, permanent bracing, fixing brackets, bolts, etc supplied and delivered to site, including engineer's drawings and certificates for design and fixing on site (hoisting and fixing in position, wall plates and purlins elsewhere measured) as per 'Senior Science Laboratory' drawing annexed to these bills of quantities for tender purposes.			No	1		
	DD3 1						
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		Unit	Quantity	Rate	Amount
9	Roof construction to double pitched roof 28,320 x 13,970m overall on plan with projection 6,0 x 1,16m, having a 12 degree pitch and 600mm overhang at eaves, including plate nailed timber roof trusses, jack rafters, permanent bracing, fixing brackets, bolts, etc supplied and delivered to site , including engineer's drawings and certificates for design and fixing on site (hoisting and fixing in position, wall plates and purlins elsewhere measured) as per ' Senior Library and Computer Laboratory' drawing annexed to these bills of quantities for tender purposes.	No	1		
	DD5 1				
10	Roof construction to double pitched roof 28,170 x 12,229m overall on plan with projection 3,748 x 1,709m and 2,587 x 1,943m, having a 17,5 degree pitch and 600mm overhang at eaves, including plate nailed timber roof trusses, jack rafters, permanent bracing, fixing brackets, bolts, etc supplied and delivered to site , including engineer's drawings and certificates for design and fixing on site (hoisting and fixing in position, wall plates and purlins elsewhere measured) as per ' Administration Block' drawing annexed to these bills of quantities for tender purposes.	No	1		
	AA3 1				
11	Roof construction to double pitched roof 18,990 x 12,582m, 6,175 x 10,368m and 6,174 x 7,781m on plan, having a 12 degree pitch and 600mm overhang at eaves, including plate nailed timber roof trusses, jack rafters, permanent bracing, fixing brackets, bolts, etc supplied and delivered to site , including engineer's drawings and certificates for design and fixing on site (hoisting and fixing in position, wall plates and purlins elsewhere measured) as per ' Dinning and Nutrition Block' drawing annexed to these bills of quantities for tender purposes.	No	1		
	CC2 1				
12	Roof construction to double pitched roof 14,755 x 10,135m overall on plan, having a 12 degree pitch and 600mm overhang at eaves, including plate nailed timber roof trusses, jack rafters, permanent bracing, fixing brackets, bolts, etc supplied and delivered to site , including engineer's drawings and certificates for design and fixing on site (hoisting and fixing in position, wall plates and purlins elsewhere measured) as per ' Multi-Purpose Classroom Block' drawing annexed to these bills of quantities for tender purposes.	No	1		
	DD4 1				
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
13	Roof construction to double pitched roof 23,369 x 10,713m overall on plan, having a 12 degree pitch and 600mm overhang at eaves, including plate nailed timber roof trusses, jack rafters, permanent bracing, fixing brackets, bolts, etc supplied and delivered to site , including engineer's drawings and certificates for design and fixing on site (hoisting and fixing in position, wall plates and purlins elsewhere measured) as per '2 Classroom Block with HOD' drawing annexed to these bills of quantities for tender purposes.	No	3		
	I 3				
14	Roof construction to double pitched roof 42,255 x 10,150m overall on plan, having a 12 degree pitch and 600mm overhang at eaves, including plate nailed timber roof trusses, jack rafters, permanent bracing, fixing brackets, bolts, etc supplied and delivered to site , including engineer's drawings and certificates for design and fixing on site (hoisting and fixing in position, wall plates and purlins elsewhere measured) as per '5 Classroom Block' drawing annexed to these bills of quantities for tender purposes.	No	1		
	I 1				
15	Roof construction to double pitched roof 48,535 x 10,150m overall on plan, having a 17 degree pitch and 600mm overhang at eaves, including plate nailed timber roof trusses, jack rafters, permanent bracing, fixing brackets, bolts, etc supplied and delivered to site , including engineer's drawings and certificates for design and fixing on site (hoisting and fixing in position, wall plates and purlins elsewhere measured) as per '5 Classroom Block with HOD' drawing annexed to these bills of quantities for tender purposes.	No	1		
	I 1				
	<u>Taking delivery, storing, hoisting and fixing in position roof trusses approximately 3,0 to 5,0m above ground level:</u>				
16	Mono-pitched truss approximately 8855 x 1800mm high overall.	No	1		
	DD5 1				
	<u>EAVES, VERGES, ETC</u>				
	<u>Sawn softwood:</u>				
17	38 x 38mm Trimmers.	m	5		
	DD5 5				
18	12 x 225mm Barge boards fixed to roof timbers at 500mm centres with 6 x 50mm countersunk stainless steel screws including PVC H-profile joiners.	m	6		
	DD5 6				
Carried to Collection				R	

		Unit	Quantity	Rate	Amount
	<u>6mm Fibre-cement ceiling board with H-profile PVC jointing strips with all nail or screw heads stopped and sanded level:</u>				
19	Eaves soffit covering 250mm wide including two 38 x 50mm sawn softwood branders along length, 38 x 38mm sawn softwood hangers, etc and 19mm wrought meranti quadrant beads along both edges.	m	3		
	DD2 3				
20	Eaves soffit covering 750mm wide including three 38 x 50mm sawn softwood branders along length, 38 x 38mm sawn softwood hangers, etc and 19mm wrought meranti quadrant beads along both edges.	m	584		
	EE1 279 AA3 56 CC2 65				
	DD3 31 DD4 31 DD5 35				
	HH5 53 DD2 34				
21	Verge soffit covering 300mm wide including two 38 x 38mm sawn softwood branders along length, 38 x 38mm sawn softwood hangers, etc and 19mm wrought meranti quadrant beads along edges.	m	409		
	EE1 195 AA3 33 CC2 51				
	DD3 21 DD5 24 HH5 49				
	DD2 36				
	<u>Medium density ungrooved fibre-cement boards:</u>				
22	12 x 225mm Fascia boards fixed to roof timbers at approximately 1200mm centres with four 6 x 50mm countersunk stainless steel screws and 32 x 44 x 100mm wrought softwood blocking pieces including PVC H-pofile joiners.	m	585		
	EE1 279 AA3 53 CC2 65				
	DD3 31 DD4 31 DD5 35				
	HH5 53 DD2 38				
23	80 x 200mm Barge boards fixed to roof timbers at 500mm centres with 6 x 50mm countersunk stainless steel screws including PVC H-pofile joiners.	m	454		
	EE1 195 AA3 38 CC2 51				
	DD3 25 DD4 25 DD5 24				
	HH5 49 DD2 47				
	<u>SKIRTINGS</u>				
	<u>Wrought meranti:</u>				
24	22 x 75mm Arris rounded, hollow backed hardwood skirting including 19mm quadrant bead, plugged.	m	1 252		
	EE1 509 AA3 229 CC2 61				
	DD3 63 DD4 61 DD5 68				
	HH1 8 HH5 172 DD2 81				
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		Unit	Quantity	Rate	Amount
<u>FLUSH DOORS</u>					
<u>Semi solid core flush doors with commercial veneer covering on both sides with hardwood edge strips to vertical edges, hung to steel frames:</u>					
25	44mm Door 813 x 2032mm high.	No	33		
	Un/A 3 AA3 13 CC2 5				
	DD3 1 DD4 1 DD5 1				
	HH5 8 DD2 1				
<u>Solid flush doors with 3.2mm standard hardboard covering on both sides with hardwood edge strips to vertical edges, hung to steel frames:</u>					
26	40mm Door 813 x 2032mm high.	No	1		
	Un/A 1				
27	40mm Door 936 x 2032mm high.	No	1		
	Un/A 1				
28	40mm Double door 760 x 2032mm high with rebated meeting edges.	No	1		
	Un/A 1				
<u>FRAMED DOORS, ETC.</u>					
<u>Wrought meranti doors hung to steel frames:</u>					
29	44mm Framed, ledged, braced and battened door 813 x 2032mm high of 44 x108mm top rail and stiles, 22 x 108 middle ledge, 22 x 222mm bottom rail and 22 x 70mm braces, filled in flush with 22mm tongued and grooved V-jointed one side boarding with and including 6mm marine ply recessed to internal face.	No	24		
	EE1 16 DD3 1 DD4 1				
	DD5 1 HH1 1 HH5 4				
30	44mm Framed door 813 x 2032mm high of 44 x108mm top rail, stiles and bottom rail with the top section filled flush with 90 x 44mm hardwood vertical tongue and grooved slats and bottom section filled in with hardwood louvre slats with and including insect screen internally (As per Door type 12 annexed hereo for tendering purposes).	No	1		
	Un/A 1				
31	44mm Framed, ledged, braced and battened stable door 813 x 2032mm high of 44 x108mm top rail and stiles, 22 x 108 middle ledge, 22 x 222mm bottom rail and 22 x 70mm braces, filled in flush with 22mm tongued and grooved V-jointed one side boarding with and including 6mm marine ply recessed to internal face.	No	2		
	CC2 2				
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		Unit	Quantity	Rate	Amount
32	Extra over FLBB door for 32 x 70mm wrot meranti chamfered and grooved weatherboard fixed in and including groove in underside of door.	No	33		
	EE1 16 AA3 3 CC2 6 DD3 1 DD4 1 DD5 1 HH1 1 HH5 4				
33	44mm Two panel double door 1616 x 2032mm high with rebated meeting styles, each leaf with 44 x 108mm top rail, middle rail, bottom rail and stiles, 598 x 608mm high raised and fielded both sides panel and 598 x 1100mm high top pane rebated all round including 13 x 13mm quadrant glazing beads. (D2)	No	9		
	Un/A 3 AA3 2 CC2 3 DD2 1				
	<u>Wrought hardwood folding doors including sliding gear, ironmongery, etc:</u>				
	<u>Note: Folding doors to be supplied complete with frame</u>				
34	44mm Sliding / folding door 5912 x 2470mm high overall in seven equal framed and ledged panels with flush meeting stiles, each panel of 44 x 108mm stiles, 44 x 220mm top-, bottom- and middle rails, 628 x 460mm raised and fielded both sides panel and 628x 1350 x 15mm thick plywood panel in rebated opening, including 44 x 144mm rebated linings (D13).	No	1		
	Un/A 1				
	<u>FRAMED FRAMES ETC</u>				
	<u>Wrought meranti:</u>				
35	69 x 90mm Rebated and angle rounded door frames, plugged.	m	20		
	Un/A 20				
	<u>BEADS, ARCHITRAVES, ETC</u>				
	<u>Wrought meranti:</u>				
36	19mm Quadrant bead	m	22		
	Un/A 22				
	<u>JOINERY SUNDRIES:</u>				
	<u>Wrought meranti:</u>				
37	22 x 222mm Fire extinguisher backing board 800mm long rebated and chamfered all round along edges and plugged.	No	34		
	EE1 16 AA3 2 CC2 5 DD3 2 DD4 1 DD5 2 HH5 4 DD2 2				
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
38	22 x 108mm Twice splayed and angle rounded coat rails in short lengths, plugged Un/A 30 <u>NOTICE BOARDS, ETC</u> <u>Pinning boards:</u>	m	30		
39	Pinning boards size 628 x 1350mm high formed of 4.5mm "Belgotex Color Rib" structured needlepunch carpet and 10mm softboard backing, fixed to recessed panel of timber door. Un/A 1	No	1		
40	Pinning boards size 652 x 1374mm high formed of 4.5mm "Belgotex Color Rib" structured needlepunch carpet and 10mm softboard backing, fixed to recessed panel of timber door. Un/A 1 <u>Honours boards:</u>	No	1		
41	32 x 32mm Wrought softwood grounds plugged. AA3 12	m	12		
42	19 x 19mm Wrought meranti quadrant beads. AA3 10	m	10		
43	69 x 69mm Wrought meranti rebated and moulded surrounds, plugged. AA3 11	m	11		
44	12mm Thick plywood with commercial veneer both sides. AA3 3 <u>SHELVES, ETC</u> <u>Wrought laminated softwood:</u>	m ²	3		
45	21 x 315mm Shelves screwed to steel brackets (brackets elsewhere) with stainless steel screws. DD5 19	m	19		
46	21 x 455mm Shelves screwed to steel brackets (brackets elsewhere) with stainless steel screws. AA3 31 CC2 73 DD3 68 DD4 68 DD5 38 HH5 286 DD2 60	m	624		
47	21 x 315mm Floor shelf on and including two 22 x 69mm wrought softwood bearers along length and cross bearers at not exceeding 900mm centres. DD5 6	m	6		
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		Unit	Quantity	Rate	Amount
48	21 x 450mm Floor shelf on and including two 22 x 69mm wrought softwood bearers along length and cross bearers at not exceeding 900mm centres.	m	48		
	HH5 48				
49	21 x 455mm Floor shelf on and including two 22 x 69mm wrought softwood bearers along length and cross bearers at not exceeding 900mm centres.	m	52		
	AA3 5 CC2 15 DD3 11				
	DD4 11 DD2 10				
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BILL NO. 7
CARPENTRY AND JOINERY
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<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 8</u>				
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
EE1	Single Classroom			
AA3	Admin Large			
CC2	DNC Medium			
DD3	Science Senior			
DD4	MPC			
DD5	Computer Lab			
HH1	Gate House			
HH5	HOD - Add			
Item	Item			
DD2	Library			
FF9	Undercover Play Area			
I	Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Materials and workmanship:</u>				
Timber brandering shall comply with SANS 1707-2 and SANS 1783-4.				
<u>Fixing:</u>				
Items described as nailed shall be deemed to be fixed with non-corrosive nails or shot pins to brickwork or concrete.				
Items described as plugged shall be deemed to include screwing with non-corrosive screws to fibre, plastic or metal plugs at not exceeding 540mm centres, and where described as bolted the bolts have been measured elsewhere.				
Descriptions of wood cornices or cover strips shall be deemed to include punching nail heads and countersinking screw heads and filling with matching wood filler.				
<u>Ceilings:</u>				
Unless otherwise described ceilings shall be deemed to be horizontal.				
<u>Steel components:</u>				
All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121.				
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		Unit	Quantity	Rate	Amount
<u>Openings in nailed-up ceilings:</u>					
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc					
<u>Proprietary suspended ceilings:</u>					
Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations.					
Electrical light fittings, diffusers, panels, etc generally are lay in units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof).					
<u>General:</u>					
Only specialist ceiling subcontractors approved by the manufacturer of the materials shall be allowed to execute the work. Ceiling boards shall be arranged symmetrically about the room, with cut boards along walls and straight joints in both directions.					
<u>CEILING CONSTRUCTION, CORNICES, ETC.</u>					
<u>SCREWED-UP CEILINGS</u>					
<u>6mm Fibre-cement board with H-profile PVC jointing strips with all nail or screw heads stopped and sanded level:</u>					
1	Ceilings including 38 x 50mm sawn softwood branderling at 400mm centres in one direction, ends of sheets and at light fittings.	m ²	2 241		
	EE1 960 AA3 323 CC2 300				
	DD3 104 DD4 103 DD5 96				
	HH5 164 DD2 191				
2	Extra over ceiling for 600 x 600mm anodised aluminium top hinged trap door including all necessary timber trimmers, framing, etc.	No	46		
	EE1 16 AA3 15 CC2 4				
	DD3 1 DD4 1 DD5 2				
	HH5 4 DD2 3				
<u>6.4mm Gypsum plasterboard ceilings with H-profile galvanised steel jointing strips with all nail or screw heads stopped and sanded level:</u>					
3	Ceilings including 38 x 50mm sawn softwood branderling at 400mm centres in one direction, at ends of sheets and at light fittings.	m ²	5		
	Un/A 5				
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		Unit	Quantity	Rate	Amount
4	Extra over ceiling for 600 x 600mm anodised aluminium top hinged trap door including all necessary timber trimmers, framing, etc. DD5 1 <u>6mm Cladit ceiling to verandah fixed to U/S 38 x 50mm pine brandering at 400mm cetnres including jointing strip with nail or screws heads stopped, etc:</u>	No	1		
5	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres in one direction, at ends of sheets and at light fittings.,,, EE1 290 AA3 63 CC2 27 DD3 32 DD4 32 DD5 68 HH5 56 <u>CORNICES, ETC</u> <u>Gypsum plasterboard cornices:</u>	m ²	568		
6	75mm Coved cornice. EE1 496 AA3 250 CC2 139 DD3 65 DD4 65 DD5 69 HH5 188 DD2 69 <u>Wrought softwood:</u>	m	1 341		
7	22 x 63mm Coved cornice plugged. EE1 295 AA3 73 CC2 29 DD3 33 DD4 33 DD5 38 HH5 60 DD2 66 <u>INSULATION</u> <u>Non-combustible light weight mineral wool thermal ceiling insulation with an R-value of 3.38:</u>	m	627		
8	100mm Insulation in blanket form closely fitted with ends butted firmly between tie beams and laid loose on top of brandering between roof timbers etc. EE1 960 AA3 323 CC2 294 DD3 104 DD4 103 DD5 172 HH5 164 DD2 127 <u>SECURITY BARRIERS ABOVE CEILINGS</u> <u>500/24 Hot dip galvanised flat razor wire (160kg/mm²) with flat spiral barrage 500mm and packing density of 4,2 turns per meter in 450mm diameter coils secured together with three standard jointing clips per coil:</u>	m ²	2 247		
9	Laid on top of timber roof truss tie beams spaced at approximately 1200mm centres and fixed with 30mm galvanised staples/U-nails. DD5 108 DD2 191	m ²	299		
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<u>BILL NO. 8</u>		
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>		
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<u>SECTION NO. 3</u>					
<u>BUILDING WORKS</u>					
<u>BILL NO. 9</u>					
<u>JOINERY FITTINGS</u>					
<u>Key:</u>	<u>Location Description:</u>				
Un/A	Unallocated				
EE1	Single Classroom				
AA3	Admin Large				
CC2	DNC Medium				
DD3	Science Senior				
DD4	MPC				
DD5	Computer Lab				
HH1	Gate House				
HH5	HOD - Add				
Item	Item				
DD2	Library				
FF9	Undercover Play Area				
I	Item Location (Auto)				
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Descriptions:</u>					
The following joinery fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, subframes, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, quadrant beads at junctions with adjacent surfaces, decorative finishes, glass, ironmongery, metalwork, paint or varnish finishes, etc. The descriptions of the items are intended as a means of identifying and locating the items only and are not intended as full descriptions and specifications of the items. Tenderers are to refer to the respective fittings as detailed on the Architect's drawings accompanying these Bills of Quantities for tender purposes.					
<u>Protection:</u>					
The Contractor shall protect the work during the course of construction, which protection shall be adequate for the purpose and to the approval of the Principal Agent.					
<u>Liaison with other trades:</u>					
It is to be noted that this work will be executed in close conjunction with other trades such as electrical and mechanical works. No extra costs whatsoever will be entertained in this regard.					
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Post-formed Formica worktops:</u>					
All post-formed Formica worktops shall be Formica Lifeseal worktops with backing layer on underside.					
<u>JOINERY FITTINGS TO ADMIN BLOCK</u>					
1	U-Shaped worktop 6229mm long extreme x 600 x 850mm high including mild steel brackets, support posts and two floor cupboard and drawer units for reception as per drawing No. 1920.3_AR_AA3_204.	No	1		
	AA3 1				
2	Worktop 4020 x 600 x 850mm high including floor cupboard unit for staff room as per drawing No. 1920.3_AR_AA3_204.	No	1		
	AA3 1				
3	Worktop 5007 x 600 x 850mm high including floor cupboard unit for staff room as per drawing No. 1920.3_AR_AA3_204.	No	1		
	AA3 1				
4	Worktop 3490 x 750 x 968mm high including floor cupboard unit for store room as per staff room detail on drawing No. 1920.3_AR_AA3_204.	No	1		
	AA3 1				
5	Worktop 2125 x 750 x 968mm high including floor cupboard unit for store room as per store room detail on drawing No. 1920.3_AR_AA3_204.	No	1		
	AA3 1				
6	Worktop 2130 x 750 x 968mm high including floor cupboard unit for print room as per store room detail on drawing No. 1920.3_AR_AA3_204.	No	1		
	AA3 1				
7	50mm Thick hard wood bench 2745 x 500 x 425mm high and including mild steel brackets built into brickwork as per waiting room detail on drawing No. 1920.3_AR_AA3_204.	No	1		
	AA3 1				
8	L - shaped sink unit 4725mm girth extreme x 600mm wide x 850mm high including floor cupboard units with and including worktop extension 2000 x 110mm wide through servery opening and including cutting hole for and fitting drop-in sink (sink elsewhere) in worktop, with edge of worktop sealed with waterproofing compound around opening and edge of sink bedded in silicone sealant on worktop as per 'kitchen' detail on Drawing no. 1920.3_AR_AA3_204.	No	1		
	AA3 1				
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		Unit	Quantity	Rate	Amount
9	Worktop 1638 x 675 x 800mm high including floor cupboards as per reception detail on drawing No. 1920.3_AR_AA3_204. AA3 1	No	1		
10	V-Shaped Worktop 4251 x 555 x 800mm high including mild steel brackets and steel support posts as per reception detail on drawing No. 61920.3_AR_AA3_204. AA3 1	No	1		
11	BIC cupboard unit 980 x 600 x 2595mm high per entrance foyer detail on drawing No. 1920.3_AR_AA3_204. AA3 1	No	1		
<u>JOINERY FITTINGS TO NUTRITION CENTRE</u>					
12	Counter 3200 x 300 x 32mm thick including 120 x 32mm thick downstand panel along edge, concealed SAP supports and extending counter top through servery opening 3000 x 270mm wide as per 'Nutrition Centre/DNC' joinery detail. CC2 1	No	1		
<u>JOINERY FITTINGS TO LIBRARY AND COMPUTER BLOCK (Refer drawing No's 1920.3 AR DD1 204)</u>					
13	Worktop 9650 x 700 x 750mm high overall. DD2 1	No	1		
14	L-shaped counter/floor cupboard 6000mm extreme girth x 747mm wide x 1100mm high overall. DD2 1	No	1		
15	Double L-shaped floor cupboard 14530mm extreme girth x 600mm wide x 850mm high overall, including cutting hole for and fitting drop-in sink (sink elsewhere) in worktop, with edge of worktop sealed with waterproofing compound around opening and edge of sink bedded in silicone sealant on worktop . DD2 1	No	1		
16	L-shaped desk 3450mm extreme girth x 625mm wide x 1100mm high overall. DD5 1	No	1		
17	Computer desk 12995mm long 700mm wide x 750mm high overall. DD5 1	No	1		
18	Magazine racks 5460mm long x 300mm wide x 1420mm high overall. DD5 1	No	1		
19	Newspaper stand 1200mm long x 703mm wide x 1160mm high overall. DD5 1	No	1		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>JOINERY FITTINGS TO MULTIPURPOSE BLOCK</u>					
<u>(Refer drawing No's 1920.3 AR DD4 204)</u>					
20	Worktop 7365 x 600 x 750mm high overall. DD4 1	No	1		
21	Floor cupboard 7750 x 600 x 750mm high overall, including cutting holes for and fitting four drop-in laboratory sinks (sinks elsewhere) in worktop, with edge of worktop sealed with waterproofing compound around openings and edge of sinks bedded in silicone sealant on worktop . DD4 1	No	1		
22	Floor cupboard 1550 x 600 x 1600mm high overall. DD4 1	No	1		
<u>JOINERY FITTINGS TO SCIENCE LABORATORY</u>					
<u>(Refer drawing No's 1920.3 AR 443 204)</u>					
23	Worktop 2715 x 500 x 750mm high overall. DD3 1	No	1		
24	Worktop 3300 x 500 x 750mm high overall. DD3 1	No	1		
25	Worktop 1400 x 600 x 750mm high overall. DD3 1	No	1		
26	Worktop 2100 x 600 x 750mm high overall. DD3 6	No	6		
27	Worktop 2800 x 600 x 750mm high overall. DD3 5	No	5		
28	Floor cupboard 3300 x 600 x 750mm high overall, including cutting hole for and fitting drop-in laboratory sink (sink elsewhere) in worktop, with edge of worktop sealed with waterproofing compound around opening and edge of sink bedded in silicone sealant on worktop . DD3 1	No	1		
29	Floor cupboard 7200 x 600 x 750mm high overall, including cutting holes for and fitting five drop-in laboratory sinks (sinks elsewhere) in worktop, with edge of worktop sealed with waterproofing compound around openings and edge of sinks bedded in silicone sealant on worktop . DD3 1	No	1		
30	Floor cupboard 7200 x 600 x 750mm high overall, including cutting holes for and fitting six drop-in laboratory sinks (sinks elsewhere) in worktop, with edge of worktop sealed with waterproofing compound around openings and edge of sinks bedded in silicone sealant on worktop . DD3 1	No	1		
Carried to Collection				R	

		TANDANANI SSS			
		Unit	Quantity	Rate	Amount
31	Floor cupboard 1550 x 600 x 1600mm high overall. DD3 1	No	1		
32	Fume cupboard 1100 x 640 x 1810mm high overall (extractor and flue elsewhere). DD3 1	No	1		
<u>JOINERY FITTINGS TO HOD OFFICE (Refer drawing No's 1920.3 AR EE3 204)</u>					
33	Worktop 3080 x 600 x 825mm high including floor cupboard and drawer units. HH5 4	No	4		
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JOINERY FITTINGS
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		Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>					
<u>BUILDING WORKS</u>					
<u>BILL NO. 10</u>					
<u>FLOOR COVERINGS</u>					
<u>Key:</u>		<u>Location Description:</u>			
Un/A		Unallocated			
EE1		Single Classroom			
AA3		Admin Large			
CC2		DNC Medium			
DD3		Science Senior			
DD4		MPC			
DD5		Computer Lab			
HH1		Gate House			
HH5		HOD - Add			
Item		Item			
DD2		Library			
FF9		Undercover Play Area			
I		Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Fixing:</u>					
Floor coverings, wall linings, etc shall be fixed and installed in accordance with the manufacturer's instructions.					
<u>Floor tiles in two-colour pattern:</u>					
Floor tiles in two-colour pattern shall include margins and borders in varying widths exceeding 300mm.					
<u>VINYL FLOOR COVERINGS</u>					
<u>2.5mm Thick fully flexible vinyl floor sheeting with welded joints including approved water based acrylic adhesive:</u>					
<u>SELF LEVELING 4 COMPONENT EPOXY SCREED</u>					
1	On floors.		m ²	2 129	
	EE1 960	AA3 275	CC2 221		
	DD3 103	DD4 103	DD5 120		
	HH1 5	HH5 170	DD2 172		
<u>6mm Thick polyurethane epoxy floor finish including one coat primer with scattered aggregate and one final coat comprising resin, activator, plain aggregate and pigment.</u>					
2	On floors.		m ²	71	
	CC2	71			
3	Extra over last for saw cutting 8 x 8mm anchor grooves.		m	79	
	CC2	79			
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		Unit	Quantity	Rate	Amount
<u>CARPET SHEETING AND TILES</u>					
<u>300 x 300 x 9mm Thick 'Belgotex Mindful' multi-level loop pile carpet of stainproof miracle fibre or equal approved carpet tiles on screeds (screed elsewhere):</u>					
4	On floors.	m ²	2		
	Un/A 2				
<u>SKIRTINGS, BUMP RAILS, ETC</u>					
<u>Aluminium transition cover strips:</u>					
5	38mm Wide natural anodised aluminium transition cover strips plugged.	m	25		
	EE1 16 DD3 1 DD4 1				
	HH1 1 HH5 4 DD2 2				
<u>'FloorworX Extruda' accessories or similar approved:</u>					
6	10mm Wide x 70mm high MCB70 skirting.	m	8		
	HH1 8				
<u>POLISH, SEALERS, ETC</u>					
<u>Scrubbing with diluted neutral detergent complying with SANS 825, rinsing, drying and applying three coats water-based copolymer emulsion (matt) or other approved sealer complying with SANS 1032:</u>					
7	On vinyl flooring.	m ²	2 129		
	EE1 960 AA3 275 CC2 221				
	DD3 103 DD4 103 DD5 120				
	HH1 5 HH5 170 DD2 172				
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BILL NO. 10
FLOOR COVERINGS
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 11</u>				
<u>IRONMONGERY</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
EE1	Single Classroom			
AA3	Admin Large			
CC2	DNC Medium			
DD3	Science Senior			
DD4	MPC			
DD5	Computer Lab			
HH1	Gate House			
HH5	HOD - Add			
Item	Item			
DD2	Library			
FF9	Undercover Play Area			
I	Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Finishes to ironmongery:</u>				
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.				
<u>Descriptions:</u>				
Descriptions of ironmongery shall be deemed to include for fixing to wood, aluminium and steel.				
<u>HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC</u>				
<u>'Union' or similar approved:</u>				
1	75 x 41mm SC brass butt hinges.	No	2	
	Un/A 2			
2	100mm SC brass barrel bolt fixed to door.	No	2	
	CC2 2			
3	100mm SC brass necked barrel bolt fixed to door.	No	2	
	CC2 2			
4	150mm Brass barrel bolt with keep let into steel.	No	9	
	Un/A 3 AA3 2 CC2 3			
	DD2 1			
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
5	150mm Brass necked barrel bolt with keep let into concrete. Un/A 3 AA3 2 CC2 3 DD2 1	No	9		
6	'E1511 EREBUS' oH/D satin chrome adjustable roller catch. Un/A 1	No	1		
<u>LOCKS, ETC</u>					
7	70mm 'Viro' V351 or similar approved stainless steel discus padlock. EE1 16 DD3 2 DD4 2 HH1 1 HH5 4 DD2 1	No	26		
<u>EN SUITE LOCKS</u>					
<u>The following locks and cylinder lock are to be suitable for master and grand master key operation.</u>					
<u>'Union' or similar approved:</u>					
8	DDC106601 MK 66mm five pin Euro-profile Double Cylinder, master keyed. Un/A 5	No	5		
9	2277-78 Three lever mortice lock with striking plate fixed to metal. Un/A 3 EE1 16 AA3 13 CC2 7 DD3 2 DD4 2 DD5 2 HH1 1 HH5 12 DD2 1	No	59		
10	2277-78 Three lever mortice lock with 2900C rebate conversion set. Un/A 3 AA3 2 CC2 3 DD2 1	No	9		
11	Grand master key. AA3 2	No	2		
12	Master key. EE1 16 AA3 2 CC2 2 DD3 2 DD4 2 DD5 2 HH5 8 DD2 2	No	36		
<u>HANDLES, FLUSH PULLS, ESCUTCHEONS, ETC</u>					
<u>'Union' or similar approved:</u>					
13	Code CB612-24SC 'Protea' brass lever handles. Un/A 6 EE1 16 AA3 15 CC2 10 DD3 2 DD4 2 DD5 2 HH1 1 HH5 12 DD2 2	Sets	68		
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>DOOR CLOSERS</u>					
<u>'Union' or similar approved:</u>					
14	Delayed action EN2-6 overhead door closer (Union 7836) including parallel arm bracket (Union PA-E010101).	No	6		
AA3 2 CC2 2 DD5 1					
DD2 1					
<u>PUSH PLATES AND KICKING PLATES</u>					
<u>1,2mm Grade 430mm stainless steel plates:</u>					
15	813 x 150mm Girth, twice bent along length to fit over top of door, fixed to door with no. 8 small raised head stainless steel screws at equal centres.	No	2		
AA3 2					
<u>KEY TAGS</u>					
16	40mm Diameter x 3mm thick clear perspex key tag with black painted background with 10mm high reverse engraved and white painted Helvetica or similar approved Medium numerals holed for and fitted with 22mm diameter split key ring. (Provisional)	No	101		
EE1 48 AA3 15 CC2 3					
DD3 7 DD4 3 DD5 3					
HH1 3 HH5 12 DD2 7					
<u>SUNDRIES</u>					
17	'BBL' BBFHK02-BP-1 brass double coat hook or similar approved.	No	20		
AA3 8 CC2 4 DD3 1					
DD4 1 DD5 1 HH5 4					
DD2 1					
18	'Dorma' DHC-SS-031B stainless steel hat and coat hook with rubber buffer or similar approved.	No	7		
AA3 2 DD3 1 HH5 4					
19	'Union' CZ8731SC or similar approved door stop plugged.	No	65		
EE1 16 AA3 15 CC2 13					
DD3 2 DD4 2 DD5 2					
HH1 1 HH5 12 DD2 2					
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>LETTERS, NAMEPLATES, ETC</u>					
<u>Black acrylic door plates engraved with arial font and painted white, fixed to door frame or wall with chromium plated domeheaded screws:</u>					
20	50 x 50 x 3mm Thick door number plate engraved with two numerals size 25mm high.	No	66		
	EE1 16 AA3 16 CC2 11 DD3 3 DD4 1 DD5 3 HH1 1 HH5 12 DD2 3				
21	200 x 50 x 3mm Thick door name plate engraved with varying numbers of letters and/or numerals each size 25mm high.	No	29		
	EE1 16 AA3 5 DD3 1 DD4 1 HH1 1 HH5 4 DD2 1				
22	300 x 80 x 3mm Thick door name plate engraved with varying numbers of letters and/or numerals each size 50mm high.	No	9		
	AA3 6 DD3 1 DD4 1 DD2 1				
23	400 x 80 x 3mm Thick door name plate engraved with varying numbers of letters and/or numerals each size 50mm high.	No	11		
	AA3 5 DD3 1 HH5 4 DD2 1				
<u>Rigid plastic (ABS) symbolic photoluminescent fire signs complying with SANS 1186 or equal approved:</u>					
24	190 x 190mm Single sided 'direction to fire extinguisher' sign (F38, F37, F36).	No	54		
	EE1 32 AA3 2 CC2 5 DD3 2 DD4 1 DD5 2 HH5 8 DD2 2				
25	190 x 190mm Single sided 'fire extinguisher' sign (F28).	No	54		
	EE1 32 AA3 2 CC2 5 DD3 2 DD4 1 DD5 2 HH5 8 DD2 2				
<u>SHELVES, ETC</u>					
26	914 x 380mm Epoxy powder coated steel shelf fixed on steel brackets (brackets elsewhere)	No	1		
	Un/A 1				
27	1000 x 380mm Epoxy powder coated steel shelf fixed on steel brackets (brackets elsewhere)	No	1		
	Un/A 1				
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Adjustable steel shelving components with standard epoxy powder coated finish:</u>					
28	Double slot wall band 1220mm long, plugged. DD5 8	No	8		
29	Double slot wall band 1830mm long, plugged. CC2 12	No	12		
30	Double slot wall band 2134mm long, plugged. AA3 8 CC2 9 DD3 16 DD4 16 DD5 9 HH5 68 DD2 11	No	137		
31	381mm Single slot shelf bracket for steel shelves. CC2 102	No	102		
32	270mm Double slot shelf bracket for timber shelves. DD5 24	No	24		
33	370mm Double slot shelf bracket for timber shelves. AA3 48 DD3 96 DD4 96 DD5 54 HH5 408 DD2 66	No	768		
<u>PROPRIETARY TYPE CUPBOARDS</u>					
<u>Epoxy powder coated steel cabinets:</u>					
34	900 x 450 x 1800mm High stationery cabinet with four reinforced shelves and chrome plated door handle with three point locking mechanism, bolted. EE1 16 HH5 4	No	20		
35	380 x 80 x 550mm Lockable 100-key capacity key-cabinet, bolted. AA3 2	No	2		
<u>WRITING BOARDS, PINNING BOARDS, ETC</u>					
<u>'Vitrex System 2000':</u>					
36	Vitreous enamel steel wall mounted green board size 2400 x 1200mm high complete with aluminium chalk rail with mitred ends, plugged. Un/A 1	No	1		
37	Vitreous enamel steel wall mounted white board size 2400 x 1200mm high complete with aluminium pen rail with mitred ends, plugged. Un/A 1	No	1		
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		Unit	Quantity	Rate	Amount
38	Vitreous enamelled five piece folding type writing board size 4800 x 1140mm high with chalk rail comprising of one fixed centre board size 2400 x 1140mm (Green), two fixed side boards size 1200 x 1140mm (White) and two swing boards size 1200 x 1140mm (Green) and permanent anodised aluminium chalk rail with mitred (45 degree) corners moulded into board, plugged.	No	20		
	EE1 16 DD3 1 DD4 1 DD5 1 DD2 1				
	'Facade F-Type':				
39	Wall mounted pinning board 1500 x 1200mm high with natural anodised aluminium frame, plugged.	No	1		
	AA3 1				
40	Wall mounted pinning board 2400 x 1200mm high with natural anodised aluminium frame, plugged.	No	50		
	EE1 32 AA3 6 DD3 2 DD4 2 DD5 2 HH5 4 DD2 2				
	<u>'PARROT PRODUCTS' INTERACTIVE WHITEBOARD SYSTEM</u>				
41	1000 x 880 x 620mm Epoxy powder coated steel data projector and laptop trolley (code OP1052) or similar approved.	No	17		
	EE1 16 DD2 1				
42	Interactive whiteboard stand on castors (code IW2051) or similar approved.	No	17		
	EE1 16 DD2 1				
43	78 Inch multi touch interactive whiteboard (code HV-1683) or similar approved.	No	17		
	EE1 16 DD2 1				
44	DLP XGA 3600 ANSI Long Throw digital data projector (code OP0454) including remote control, 2,0m HDMI cable (code CL1002) and 10,0m power cable (code INSTAL 10A) or similar approved.	No	17		
	EE1 16 DD2 1				
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<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 12</u>				
<u>SCHOOL FURNITURE</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
EE1	Single Classroom			
AA3	Admin Large			
CC2	DNC Medium			
DD3	Science Senior			
DD4	MPC			
DD5	Computer Lab			
HH1	Gate House			
HH5	HOD - Add			
Item	Item			
DD2	Library			
FF9	Undercover Play Area			
I	Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>School Furniture Specifications:</u>				
Prices must include for supply and delivery to site as well as unloading, assembling and placing in position.				
The descriptions of the items are intended as a means of identifying and locating the items only and are not intended as full descriptions and specifications of the items. Tenderers are to refer to the respective furniture items as detailed in the "School Furniture Specification" accompanying these Bills of Quantities for tender purposes.				
The school furniture shall comply with the "School Furniture Specification" annexed to these bills of quantities for tender purposes.				
<u>SCHOOL FURNITURE</u>				
<u>Principal's Office:</u>				
1	Principal desk 1611 x 910 x 750mm high including three drawers.	No	1	
	AA3 1			
2	Extra over last for principal desk connecting triangular corner piece 712 x 912 x 750mm high.	No	1	
	AA3 1			
3	Principal sliding door credenza 1000 x 511 x 750mm high.	No	1	
	AA3 1			
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
4	Principal upholstered swivel and tilt high back upholstered chair 430 x 490 x 1100mm high. AA3 1	No	1		
5	Upholstered swivel and tilt high back upholstered chair 430 x 490 x 1100mm high. AA3 2	No	2		
6	Principal glass double door book case 1000 x 400 x 1435mm high. AA3 1	No	1		
7	Principal four-drawer filing cabinet 490 x 550 x 1350mm high. AA3 1	No	1		
8	Stationery double-door cupboard 1000 x 450 x 1511mm high. AA3 1	No	1		
9	Principal corresponding rack 771 x 365 x 64mm high. AA3 1	No	1		
<u>Deputy Principal's Office:</u>					
10	Desk 1611 x 910 x 750mm high including three drawers. AA3 2	No	2		
11	Upholstered swivel and tilt high back upholstered chair 430 x 490 x 1100mm high. AA3 4	No	4		
12	Teachers upholstered stackable steel frame chair 501 x 570 x 870mm high. AA3 2	No	2		
13	Stationery double-door cupboard 1000 x 450 x 1511mm high. AA3 2	No	2		
<u>Pastoral Care Room:</u>					
14	Administration desk 1200 x 700 x 750mm high including two drawers. AA3 1	No	1		
15	Teacher upholstered stackable steel frame chair 501 x 570 x 870mm high. AA3 2	No	2		
16	Polypropylene stackable chair 445 x 381 x 715mm high. AA3 1	No	1		
17	Stationery double-door cupboard 1000 x 450 x 1511mm high. AA3 1	No	1		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Administration Block Sick Room:</u>					
18	Steel frame single bed 910 x 1910 x 770mm high. AA3 2	No	2		
19	Foam sponge mattress with stitch-bond PVC cover 910 x 1910 x 150mm thick. AA3 2	No	2		
20	Sick room upholstered stackable steel frame chair with timber arm rests 501 x 571 x 870mm high. AA3 2	No	2		
21	46 Litre flip-top polypropylene dust bin. AA3 2	No	2		
22	MK1 Lockable medicine cabinet 315 x 110 x 360mm high. AA3 2	No	2		
<u>Staff Room:</u>					
23	Teacher's office / staff room desk 1200 x 700 x 750mm high with no drawers. AA3 8	No	8		
24	Staff upholstered stackable steel frame chair with timber arm rests 501 x 570 x 870mm high. AA3 8	No	8		
25	Pigeon holes filling rack 890 x 400 x 1435mm high. AA3 1	No	1		
26	Stationery double door cupboard 1000 x 450 x 1511mm high. AA3 1	No	1		
<u>Administration Block Reception Area:</u>					
27	Staff upholstered stackable steel frame chair with timber arm rests 501 x 570 x 870mm high. AA3 2	No	2		
<u>Multipurpose Classroom:</u>					
28	Epoxy powder coated steel framed polypropylene stackable chair 445 x 38 x 750mm high. (FC1) DD4 40	No	40		
29	Epoxy powder coated steel framed upholstered chair 500 x 570 x 870mm high. (FC9) DD4 1	No	1		
30	Double secondary stackable table 1200 x 450 x 750mm high. (FB5) DD4 20	No	20		
31	Teacher's classroom desk 1611 x 910 x 750mm high including two drawers. (FD2) DD4 1	No	1		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Science Laboratory:</u>					
32	Epoxy powder coated steel framed polypropylene stackable chair 300mm diameter x 460mm high. (FC6) DD3 41	No	41		
<u>Library and Computer Room:</u>					
33	Epoxy powder coated steel framed polypropylene stackable chair 445 x 38 x 750mm high. (FC1) DD2 40	No	40		
34	Upholstered swivel and tilt low back typist chair (FC11). DD2 1	No	1		
35	Wooden bookshelf 1000 x 400 x 1435mm high with three adjustable shelves. (FE6) DD2 38	No	38		
36	'Workstation Office Furniture' round folding table with 1200mm diameter x 32mm thick 'Storm Grey' top on black epoxy powder coated steel frame. DD2 5	No	5		
<u>Nutrition Centre:</u>					
37	Eight seater stackable table 1800 x 700 x 750mm high (FB8). CC2 29	No	29		
38	Polypropylene stackable chair 445 x 380 x 750mm high (FC1). CC2 232	No	232		
<u>Grade 7 to 12 Classroom:</u>					
39	Double combination primary desk 1000 x 700 x 650mm high (FA1). EE1 240	No	240		
40	Single combination primary desk 600 x 810 x 650mm high (FA2). EE1 160	No	160		
41	Teacher's classroom desk 1611 x 910 x 750mm high including two drawers. (FD2) EE1 16	No	16		
42	Teacher upholstered stackable steel frame chair 545 x 570 x 870mm high (FC9). EE1 16	No	16		
<u>HOD Offices:</u>					
43	Teacher upholstered stackable steel frame chair 545 x 570 x 870mm high (FC9). HH5 24	No	24		
Carried to Collection				R	

		TANDANANI SSS			
		Unit	Quantity	Rate	Amount
44	Teacher's classroom desk 1611 x 950 x 750mm high including two drawers. (FD2)	No	4		
	HH5 4				
45	Stackable kindergarten table 1800 x 700 x 500mm high. (FB7).	No	4		
	HH5 4				
46	Four-drawer filing cabinet 490 x 550 x 1350mm high (FE8).	No	4		
	HH5 4				
47	Stationery double-door cupboard 1000 x 450 x 1511mm high (FE1).	No	4		
	HH5 4				
	<u>Gate House:</u>				
48	Teacher upholstered stackable steel frame chair 501 x 570 x 870mm high in Gate House.	No	1		
	HH1 1				
49	Teacher's classroom desk 1611 x 950 x 750mm high including two drawers in Gate House	No	1		
	HH1 1				
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BILL NO. 12
SCHOOL FURNITURE
COLLECTION

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<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 13</u> <u>METALWORK</u>				
<u>Key:</u> Un/A EE1 AA3 CC2 DD3 DD4 DD5 HH1 HH5 Item DD2 FF9 I	<u>Location Description:</u> Unallocated Single Classroom Admin Large DNC Medium Science Senior MPC Computer Lab Gate House HOD - Add Item Library Undercover Play Area Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions:</u> Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres. <u>Purpose made steel windows:</u> Purpose made steel windows shall be manufactured in accordance with the relevant SABS/SANS specifications in "FX7" sections. All steel windows are to manufactured from 3mm thick steel. <u>Aluminium doors, windows, etc.</u> <u>Design:</u> The contractor shall be responsible for the design of the curtain walling, aluminium windows, shopfronts and doors and shall provide detailed shop drawings for approval by the Principal Agent prior to putting any work in hand and within two weeks of being awarded the contract.				
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	Unit	Quantity	Rate	TANDANANI SSS Amount
Aluminium curtain walling, shopfronts, doors and windows shall comply with AAAMSA design criteria. The design wind load for the glazed facade (external) shall be 1500Pa, in accordance with Table 3.1: Selection of AAAMSA Performance Class Designations. <u>Warranties:</u> The design wind load for internal aluminium shopfronts and doors shall be a minimum of 700Pa, in accordance with Table 3.1: Selection of AAAMSA Performance Class Designations. <u>Design intent:</u> Tenderers are referred to Window and Door Schedules annexed to these bills of quantities for the architectural design intent. <u>System supplier:</u> The system supplier for the aluminium curtain walling, windows, shopfronts and doors shall be AGI Sheerline Aluminium or equal and approved. <u>Glass and glazing:</u> Glazing shall comply with SAGGA regulations and SANS 10137. Glass shall be as specified on Shopfront Schedules and shall be of thickness and type to comply with the SAGGA regulations and SANS 10137. <u>Finishes:</u> Anodising shall comply with SANS 999 and shall be Grade AA25 (average coating thickness of 25 micron). Powder coating shall be polyester powder coating of 'White' colour. Polyester powder coating shall comply with SANS 1796 and SANS 1578. <u>Quality assurance:</u> Prior to the commencement of any site work, the following is required to be provided by the manufacturer/specialist contractor supplying/installing the aluminium curtain walling, windows, shopfronts and doors: a) AAAMSA Performance Test Certificate/s b) Shop drawings/detailed manufacturing drawings, including any relevant manuals (all for approval by the Principal Agent) Upon completion of all site work and installation, the following is required to be provided by the manufacturer/specialist contractor supplying/installing the aluminium curtain walling, windows, shopfronts and doors:				
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	Unit	Quantity	Rate	TANDANANI SSS Amount
c) AAAMSA or SAGGA Glass & Glazing Certificate/s d) AAAMSA Surface Finishing Certificate/s e) AAAMSA or SASA Skylight System Certificate/s (where applicable) f) AAAMSA Architectural Product Certificate/s (where applicable). The following warranties are required to be provided: a) A powder guarantee of not less than 15 years issued by the powder manufacturer. b) A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years. <u>Descriptions:</u> Descriptions of aluminium curtain walling, windows, shopfronts and doors shall be deemed to include all necessary temporary protection measures, burglar bars, as described and fittings as well as timber or other subframes, templates, etc which are required in terms of the approved design. All opening sections of the external aluminium windows and shopfronts are to be fitted with three 10 x 20mm solid aluminium burglar bars. Descriptions of aluminium curtain walling, windows, shopfronts and doors shall be deemed to include sealing with approved silicone sealing compound along edges as necessary. Descriptions of aluminium curtain walling, windows, shopfronts and doors shall be deemed to include preparation for fitting of ironmongery. The sizes stated in the descriptions of aluminium units are indicative only, not prescriptive and may have to be adjusted to suit circumstances. Testing of windows for watertightness: Each window shall be tested for watertightness with water sprayed on using adequate pressure. If, in the opinion of the Principal Agent, the pressure proves to be inadequate then the pressure shall be boosted by means of compressed air or other means. <u>Ironmongery:</u> Ironmongery (where not included in descriptions of aluminium curtain walling, windows, shopfronts and doors) is elsewhere measured.				
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	Unit	Quantity	Rate	Amount	
<u>HOT DIP GALVANISED STEEL GATES, SCREENS, ETC</u>					
<u>Welded grille gates, screens, etc all as per architect's Door Schedule Drawings annexed to these bills of quantities for tender purposes:</u>					
1	Single gate 885 x 1375mm high of 25 x 50 x 2mm hollow section frame filled in with 5 x 40mm flat bar vertical members at 119mm centres and 12mm dia stiffening bars, including 10mm flat bar predrilled for and bolting to wall and all necessary hinges, pins, eyes, plates, locking mechanisms, etc. (G5)	No	1		
	CC2 1				
2	Single gate 835 x 2040mm high of 25 x 50 x 2mm hollow section frame filled in with 5 x 40mm flat bar vertical members at 119mm centres and 12mm dia stiffening bars, including 10mm flat bar predrilled for and bolting to wall and all necessary hinges, pins, eyes, plates, locking mechanisms, etc (G02)	No	2		
	DD4 1 DD5 1				
3	Single gate 877 x 2415mm high of 25 x 50 x 2mm hollow section frame filled in with 5 x 40mm flat bar vertical members at 119mm centres and 12mm dia stiffening bars, including all necessary hinges, pins, plates, locking mechanisms, etc. (G01)	No	28		
	EE1 16 AA3 1 CC2 2 DD3 2 DD4 1 DD5 1 HH1 1 HH5 4				
4	Single gate 925 x 2080mm high of 50 x 50 x 2mm square hollow section frame filled in with 10 x 10mm diagonal bars at 100mm centres, including 10mm flat bar predrilled for and bolting to wall and all necessary hinges, pins, eyes, plates, locking mechanisms, etc (G04)	No	1		
	Un/A 1				
5	Single gate 925 x 1750mm high with fixed panel 360 x 1750mm high on one side size overall 1285 x 1750mm high, the gate and fixed panels consisting of 50 x 50 x 2mm square hollow section frame filled in with 10 x 10mm diagonal bars at 100mm centres and including , including 10mm flat bar predrilled for and bolting to wall and all necessary hinges, pins, eyes, plates, locking mechanisms, etc. (G03)	No	1		
	Un/A 1				
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		TANDANANI SSS			
		Unit	Quantity	Rate	Amount
6	Double gate 1684 x 2415mm high of 25 x 50 x 2mm hollow section outer frame filled in with 40 x 5mm flat bars at 119mm centres with 12mm diameter stiffener bars, including 10mm flat bar predrilled for and bolting to wall and all necessary hinges, pins, eyes, plates, locking mechanisms, etc (G3)	No	4		
	CC2 3 DD2 1				
7	Double gate 1285 x 1375mm high of 25 x 50 x 2mm hollow section outer frame filled in with 40 x 5mm flat bars at 119mm centres with 12mm diameter stiffener bars, including 10mm flat bar predrilled for and bolting to wall and all necessary hinges, pins, eyes, plates, locking mechanisms, etc (G4)	No	1		
	CC2 1				
8	Screen 1720 x 2105mm high of 25 x 50 x 2mm hollow section outer frame filled in with 40 x 5mm flat bars at 119mm centres with 12mm diameter stiffener bars, including 10mm flat bar predrilled for and bolting to wall and all necessary pins, eyes, plates, etc (G9)	No	1		
	Un/A 1				
9	Double gate 1700 x 2060mm high of 25 x 50 x 2mm hollow section outer frame filled in with 40 x 5mm flat bars at 119mm centres with 12mm diameter stiffener bars, including 10mm flat bar predrilled for and bolting to wall and all necessary hinges, pins, eyes, plates, locking mechanisms, etc (G8)	No	1		
	Un/A 1				
10	Double gate 3012 x 2850mm high of 25 x 50 x 2mm hollow section outer frame filled in with 40 x 5mm flat bars at 119mm centres with 12mm diameter stiffener bars, including 10mm flat bar predrilled for and bolting to wall and all necessary hinges, pins, eyes, plates, locking mechanisms, etc (G6)	No	1		
	AA3 1				
11	Double gate 3012 x 2850mm high of 25 x 50 x 2mm hollow section outer frame filled in with 40 x 5mm flat bars at 119mm centres with 12mm diameter stiffener bars, including 10mm flat bar predrilled for and bolting to wall and all necessary hinges, pins, eyes, plates, locking mechanisms, etc (G7)	No	1		
	AA3 1				
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		Unit	Quantity	Rate	Amount
12	Double gate 1684 x 2120mm high with fixed panels 995 x 2220mm high on each side, overall size 3640 x 2220mm high, the gate and fixed panels consisting of 50 x 50 x 2mm square hollow section outer frame and filled in with 10 x 10mm diagonal bars at 100mm centres, each fixed side panel containing lugs built into brickwork and including all necessary hinges, pins, plates, locking mechanisms, bolts, etc. (G01)	No	1		
	Un/A 1				
13	Security screen 5105 x 1700mm high overall of three panels each 1552mm wide formed of 100 x 60 x 2mm rectangular hollow section outer frame and two 32 x 32 x 2mm square hollow section middle frames filled in with 4mm welded mesh of 50 x 50mm apertures with and including 230 x 350 x 5mm thick steel base plates bolted to concrete and all necessary fixing brackets, plates, anchors, bolts, etc. all as per Architect's detail drawing no. 2363_AR_ff12_401 annexed hereto for tender purposes.	No	1		
	Un/A 1				
	<u>HOT DIP GALVANISED PRESSED STEEL DOOR FRAMES</u>				
	<u>1,6mm Double rebated frames suitable for half brick walls with three hinges per door leaf:</u>				
14	Frame for door 813 x 2032mm high and fixed fanlight 337mm high.	No	18		
	Un/A 3 AA3 13 CC2 2				
15	Frame for door 813 x 2032mm high.	No	1		
	Un/A 1				
	<u>1,6mm Double rebated frames suitable for one brick walls with three hinges per door leaf:</u>				
16	Frame for door 813 x 2032mm high and fixed fanlight 337mm high.	No	29		
	EE1 16 CC2 3 DD4 1				
	DD5 1 HH5 8				
	<u>1,6mm Double rebated frames suitable for 260mm brick walls with three hinges per door leaf:</u>				
17	Frame for door 813 x 2032mm high and fixed fanlight 337mm high.	No	2		
	DD3 1 DD2 1				
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		Unit	Quantity	Rate	Amount
<u>1.6mm Double rebated frames suitable for 285mm brick walls with three hinges per door leaf:</u>					
18	Frame for door 813 x 2032mm high and fixed fanlight 337mm high. EE1 16 CC2 2 DD3 1 DD4 1 DD5 1 HH1 1 HH5 4	No	26		
19	Frame for double door 1616 x 2032mm high and fixed fanlight 337mm high. Un/A 3 AA3 2 CC2 3 DD2 1	No	9		
<u>1.6mm Double rebated frames suitable for 270mm hollow brick walls:</u>					
20	Frame for door 813 x 2032mm high. Un/A 1	No	1		
<u>HOT DIP GALVANISED STEEL WINDOWS, DOORS, ETC</u>					
<u>'Durawin' industrial type window frames with factory fitted burglar bars to all opening sections:</u>					
21	Window type SS31, size 987 x 511mm high with B2 burglar bars. (W7) CC2 3 DD3 2 DD4 2 DD5 2 HH5 12	No	21		
22	Window type SS31/SSF31, size 987 x 978mm high with B2 burglar bars. (W5) AA3 5 CC2 7 DD3 9 DD4 9 DD5 15 DD2 15	No	60		
23	Window type SS33, size 987 x 1445mm high with B2 burglar bars. (W01) EE1 64 AA3 20 CC2 20 HH1 2 HH5 8	No	114		
24	Window type SS31/SSF32, size 987 x 1445mm high with B2 burglar bars. (W03) EE1 48 HH1 2 HH5 4	No	54		
25	Window type SS32/SSF32, size 987 x 1956mm high with B2 burglar bars. (W09) Un/A 1	No	1		
26	Window type NCT1S, size 533 x 949mm high with B2 burglar bars. (W10) Un/A 1	No	1		
27	Window type NCTX7S, size 1022 x 949mm high with B2 burglar bars. (W13) Un/A 1	No	1		
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		Unit	Quantity	Rate	Amount
28	Window type 4BH BHOI, size 889 x 457mm high. (W07) Un/A 1	No	1		
29	Window type 14BH BHOI, size 889 x 854mm high. (W06) Un/A 1	No	1		
30	Composite window type 14BH / 9-F/LT, size 889 x 1248mm high. (W05) Un/A 2	No	2		
	<u>Purpose made doors:</u>				
31	Door size 860 x 2000mm high formed of 19 x 19 x 3mm galvanised tubular steel framing and middle ledge welded at angles and intersections, covered on one side with 1,2mm galvanised sheeting pressed to shape with edges lapped around and rivetted to frame at 300mm centres, with 150 x 45mm slot for and including barrel bolt, the gate fitted with and including 25mm diameter x 2200mm long pivot pipe support welded on, with 150 x 75 x 3mm bottom bearing bolted to floor with 3 x 6mm diameter bolts, 150 x 38 x 3mm top bearing bolted to beam with 2 x 6mm diameter bolts, including top cap bearing bush, washers, bottom bearing bush and finishing smooth on all exposed edges, complete with all fixing brackets, bolts, etc. (as per Door type D8 annexed hereto for tendering purposes). Un/A 1	No	1		
	<u>ALUMINIUM WINDOWS</u>				
32	750 x 1200mm Purpose made viewing panel with fixed pane as per architect's window schedule drawing detail annexed to these bills of quantities for tender purposes. (W11) Un/A 1	No	1		
	<u>Purpose made natural anodised aluminium windows glazed with 6.38mm normal strength clear laminated safety glass and fixed to brickwork or concrete:</u>				
33	1425 x 1000mm Purpose made viewing panel with fixed pane as per architect's window schedule drawing detail annexed to these bills of quantities for tender purposes. (W04) Un/A 1	No	1		
34	700 x 949mm Purpose made sliding window with one fixed pane and one sliding opening section including locking and sliding mechanism all as per architect's window schedule drawing detail annexed to these bills of quantities for tender purposes. (W08) Un/A 1	No	1		
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		Unit	Quantity	Rate	Amount
<u>Purpose made steel security gates:</u>					
35	1310 x 1100mm Purpose made sliding window with one fixed pane and one sliding opening section including locking and sliding mechanism all as per architect's window schedule drawing detail annexed to these bills of quantities for tender purposes. (W03)	No	1		
	Un/A 1				
<u>STEEL ROLLER SHUTTERS, ETC</u>					
<u>Powder coated aluminium roller shutters, guides, canopy cover(s), etc, fixed to brickwork or concrete:</u>					
36	Crank operated roller shutter for 2500 x 1200mm high opening with side guides, neoprene weather strip to bottom edge and approved locking mechanism, and pressed metal canopy cover. (D6)	No	2		
	AA3 1 CC2 1				
37	Chain operated roller shutter for 2000 x 1180mm high opening with double-skinned insulated slats, side guides, neoprene weather strip to bottom edge and two barrel bolts and with pressed metal canopy cover. (R02)	No	1		
	Un/A 1				
<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u>					
<u>'Mutual Safes' or equal and approved factory primed strongroom doors, etc suitable for 260mm walls fixed to brickwork or concrete:</u>					
38	Model DS3 category 2 strong/record room door and frame with 895 x 2072mm high clear wall opening, 1 x 7-lever security keylock and 3-wheel combination lock and a mass of 130kg. (D7)	No	5		
	AA3 1 DD3 1 DD4 1				
	DD5 1 DD2 1				
39	Double ended telescopic strongroom ventilator with drop shutter.	No	14		
	AA3 2 DD3 2 DD4 2				
	DD5 2 DD2 6				
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<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 14</u>				
<u>PLASTERING</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
EE1	Single Classroom			
AA3	Admin Large			
CC2	DNC Medium			
DD3	Science Senior			
DD4	MPC			
DD5	Computer Lab			
HH1	Gate House			
HH5	HOD - Add			
Item	Item			
DD2	Library			
FF9	Undercover Play Area			
I	Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preparation of surfaces for plaster:</u>				
Mortar joints shall be raked to take plaster.				
Concrete surfaces shall be well wetted, wire brushed and slushed over with 2:1 cement grout which must be allowed to set hard before plaster is applied.				
<u>SCREEDS</u>				
<u>3:1 Cement plaster screeds (Class 1) on concrete:</u>				
1	25mm Thick on floors and landings.	m ²	10	
	Un/A 10			
2	35mm Thick on floors and landings.	m ²	2 185	
	EE1 960 AA3 328 CC2 221			
	DD3 103 DD4 103 DD5 125			
	HH1 5 HH5 168 DD2 172			
<u>GRANOLITHIC</u>				
<u>Untinted granolithic on concrete:</u>				
3	30mm Thick on floors and landings.	m ²	71	
	CC2 71			
4	30mm Thick on thresholds in narrow widths not exceeding 300mm wide including reedings.	m ²	6	
	AA3 2 CC2 2 DD3 1			
	DD2 1			
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		Unit	Quantity	Rate	Amount
<u>SELF-SMOOTHING EPOXY SCREEDS</u>					
<u>Apply one coat 'Flowcrete Flowprime' solvent based epoxy sealer and penetrating coat and one 2mm thick coat 'Flowcrete Flowshield SL' epoxy, applied in strict accordance with manufacturer's specifications by approved 'Flowcrete' applicator:</u>					
5	On floors to falls. Un/A 4	m ²	4		
<u>SELF-LEVELLING SCREEDS</u>					
<u>'Flowcrete Flowseal EPW Clear' primer and 2,5 - 4mm thick 'Flowcrete Flowcem DPM' epoxy cement self-levelling screed on concrete or screed (concrete or screed elsewhere) to received vinyl and/or carpet tile floor coverings:</u>					
6	On floors. EE1 960 AA3 244 CC2 221 DD3 103 DD4 103 DD5 120 HH1 5 HH5 168 DD2 172	m ²	2 096		
<u>INTERNAL PLASTER</u>					
<u>5:1 Cement plaster steel trowelled on brickwork:</u>					
7	On walls. Un/A 639 EE1 748 AA3 301 CC2 289 DD3 118 DD4 120 DD5 103 HH1 10 HH5 317 DD2 155 FF9 32	m ²	2 832		
8	On narrow widths not exceeding 300mm wide. Un/A 3 EE1 70 AA3 15 CC2 19 DD3 6 DD4 5 DD5 10 HH1 3 HH5 11 DD2 7	m ²	149		
<u>5:1 Cement plaster steel trowelled on concrete:</u>					
9	On projecting and isolated columns Un/A 8 CC2 7	m ²	15		
10	On isolated beams. Un/A 69 AA3 3 CC2 32 DD4 14	m ²	118		
11	On ceilings. AA3 18 DD3 24 DD4 23 DD5 24 HH1 5 DD2 17	m ²	111		
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				Unit	Quantity	Rate	TANDANANI SSS Amount
<u>EXTERNAL PLASTER</u>							
<u>5:1 Cement plaster wood floated on brickwork:</u>							
12	On walls.			m ²	1 027		
	Un/A 39	EE1 328	AA3 76				
	CC2 99	DD3 83	DD4 47				
	DD5 92	HH1 3	HH5 74				
	DD2 154	FF9 32					
13	On narrow widths not exceeding 300mm wide.			m ²	86		
	EE1 48	AA3 10	CC2 4				
	DD3 1	DD4 2	DD5 2				
	HH1 2	HH5 8	DD2 9				
14	On circular narrow widths not exceeding 300mm wide.			m ²	2		
	Un/A 1	DD2 1					
<u>5:1 Cement plaster wood floated on concrete:</u>							
15	On projecting and isolated columns.			m ²	33		
	Un/A 33						
16	On isolated beams.			m ²	186		
	EE1 119	AA3 3	CC2 11				
	DD3 13	DD5 16	HH5 24				
17	On narrow widths not exceeding 300mm wide.			m ²	7		
	DD5 4	DD2 3					
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>							
18	38mm Flat section natural anodised aluminium transition strip countersunk screwed to screed with stainless steel screws between different floor finishes.			m	23		
	EE1 16	CC2 6	HH1 1				
19	235 x 165mm Cast plaster vermin proof air brick.			No	36		
	Un/A 36						
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<u>BILL NO. 14</u> <u>PLASTERING</u> <u>COLLECTION</u>		Page No	
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<u>SECTION NO. 3</u>					
<u>BUILDING WORKS</u>					
<u>BILL NO. 15</u>					
<u>TILING</u>					
<u>Key:</u>	<u>Location Description:</u>				
Un/A	Unallocated				
EE1	Single Classroom				
AA3	Admin Large				
CC2	DNC Medium				
DD3	Science Senior				
DD4	MPC				
DD5	Computer Lab				
HH1	Gate House				
HH5	HOD - Add				
Item	Item				
DD2	Library				
FF9	Undercover Play Area				
I	Item Location (Auto)				
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Fixing:</u>					
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles.					
<u>WALL TILING</u>					
<u>200 x 200mm Grade 1 white glazed ceramic wall tiles fixed with adhesive to plaster (plaster elsewhere) and pointed with waterproof grout:</u>					
1	On walls.	m ²	120		
	CC2 120				
2	On walls in isolated panels, splashbacks, etc.	m ²	11		
	DD3 6 DD4 3 DD2 2				
3	On narrow widths.	m ²	9		
	CC2 9				
<u>100 x 100 x 6mm Grade 1 white glazed ceramic wall tiles fixed with adhesive to plaster (plaster elsewhere) and pointed with waterproof grout:</u>					
4	On walls in isolated panels, splashbacks, etc.	m ²	3		
	Un/A 3				
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<u>FLOOR TILING</u>					
<u>Approved glazed non-slip ceramic floor tiles (prime cost R180.00/m2) fixed with adhesive to screeds (screeds elsewhere) and pointed with waterproof grout:</u>					
5	On floors.	m ²	1		
	Un/A 1				
6	Skirting 100mm high formed of cut tiles.	m	5		
	Un/A 5				
<u>SUNDRIES</u>					
7	8 x 10mm 'M-Trim' SQE100 or equal and approved brushed stainless steel square edge trim.	m	1		
	Un/A 1				
8	'M-Trim' PRE090 or equal and approved PVC round edge trim.	m	43		
	DD3 31 DD2 12				
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TILING
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<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 16</u>				
<u>PLUMBING AND DRAINAGE</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
EE1	Single Classroom			
AA3	Admin Large			
CC2	DNC Medium			
DD3	Science Senior			
DD4	MPC			
DD5	Computer Lab			
HH1	Gate House			
HH5	HOD - Add			
Item	Item			
DD2	Library			
FF9	Undercover Play Area			
I	Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Copper pipes:</u>				
Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be Cobra type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground. Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition.				
<u>Reducing fittings:</u>				
Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.				
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		Unit	Quantity	Rate	Amount
<u>Fixing of pipes:</u>					
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls, etc. casting in, building in or suspending not exceeding 1m below suspension level					
<u>Disinfection of water pipework:</u>					
Water pipework to be disinfected at completion.					
<u>Waste unions:</u>					
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.					
<u>Sealing of edges:</u>					
Outer edges of sinks, basins, urinals, etc are to be sealed against adjacent surfaces with approved silicone sealant.					
<u>As-built drawings:</u>					
Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto originals for handing over to the employer (provision for allowance of as-built drawings elsewhere).					
<u>RAINWATER DISPOSAL</u>					
<u>0.8mm Seamless 'Color-Tech G4' coated aluminium gutters and rainwater pipes or equal and approved:</u>					
1	150 x 130mm Industrial Ogee profile eaves gutters in single lengths fixed to fibre cement fascia with internal aluminium hangers at not exceeding 600mm centres.	m	335		
	AA3 52 CC2 65 DD3 31 DD4 30 DD5 35 HH5 53 DD2 36 FF9 33				
2	Extra over gutter for stopped end.	No	121		
	EE1 64 AA3 8 CC2 12 DD3 1 DD4 2 DD5 4 HH5 16 DD2 8 FF9 6				
3	Extra over gutter for angle.	No	56		
	EE1 32 AA3 4 HH5 16 DD2 1 FF9 3				
4	Extra over gutter for outlet for 100 x 75mm pipe.	No	64		
	EE1 32 AA3 4 CC2 6 DD3 2 DD4 2 DD5 2 HH5 8 DD2 5 FF9 3				
Carried to Collection				R	

				Unit	Quantity	Rate	TANDANANI SSS Amount
5	100 x 75mm Fluted pipes fixed to wall with prepainted downpipe cleats and stainless steel nail-in anchor fasteners at not exceeding 1500mm centres.			m	224		
	EE1	112	AA3 13				
	DD3	7	DD4 7				
	HH5	28	DD2 20				
			FF9 9				
6	Extra over rainwater pipe for bend.			No	175		
	EE1	96	AA3 8				
	DD3	4	DD4 6				
	HH5	24	DD2 10				
			FF9 3				
7	Extra over rainwater pipe for shoe.			No	32		
	AA3	4	CC2 6				
	DD4	2	DD5 2				
	DD2	5	FF9 3				
			HH5 8				
<u>SANITARY FITTINGS</u>							
<u>'Vaal' or similar approved:</u>							
8	455 x 290mm 'Bantam' (code 703003) wash hand basin with one taphole, integrated overflow and chainstay hole, bolted to wall with and including two 10mm bolts (code 8448Z0).			No	1		
	Un/A	1					
9	510 x 405mm 'Hibiscus' (code 702303) wash hand basin with one taphole, integrated overflow and chainstay hole, bolted to wall with and including two 10mm bolts (code 8448Z0).			No	2		
	AA3	2					
10	570 x 455mm 'Weaver' (code 704201) wash hand basin with one taphole, integrated overflow and chainstay hole, bolted to wall with and including two 10mm bolts (code 8448Z0).			No	1		
	Un/A	1					
11	450 x 335 x 210mm 'Lab Sink' (code 234501WH) mounted in cupboard top (cupboard elsewhere).			No	17		
	DD3	13	DD4 4				
12	Extra over last for 'Cobra' bracket set (code 8109Z000/N).			Sets	17		
	DD3	13	DD4 4				
13	'Pearl' paraplegic semi-closed coupled WC suite comprising semi-closed pan with 'Pearl' seat (code 7300Z000) and 'Pearl' cistern (code 7300LPWH) with chrome plated side flush lever.			No	1		
	Un/A	1					
Carried to Collection						R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>'Duravit' or similar approved:</u>					
14	550 x 430mm 'Starck 3' (code 0300550000) wash hand basin with one taphole for pillar tap and integrated overflow, bolted to wall with and including two 10mm bolts (code 6951000000).	No	1		
	Un/A 1				
<u>'Franke' grade 304 (18/10) stainless steel or similar approved:</u>					
15	'Nouveau NVN611' single end bowl sink, size 900 x 460mm overall including 90mm waste fitting, mounted in cupboard top (cupboard elsewhere).	No	3		
	AA3 1 DD5 1 DD2 1				
16	'Neptune NEX 611' single end bowl sink and drainer (code 310074), size 1400 x 535mm overall, set on cupboard fitting (cupboard fitting elsewhere).	No	3		
	AA3 1 CC2 2				
17	'Model TU102' wall mounted curved back urinal, size 1264 x 305 x 610mm high, sound-deadened back, tiling keys, two inlets and one right hand outlet, complete with built in automatic flushing tank and 15mm adjustable drip cock fixed to wall.	No	1		
	Un/A 1				
<u>'Kwikot' grade 304 (18/10) stainless steel:</u>					
18	Double bowl wall mounted washtrough (Code KWI-SDWT-EC), size 1030 x 435mm overall with 20mm stainless steel square tubing brackets bolted to wall with four 6mm anchor bolts.	No	1		
	CC2 1				
19	Double bowl stainless sink and drainers (Code KWI-SDI-1500-DC), size 1500 x 535mm overall with 2two 343 x 10 x 146mm deep centre bowls, set on cupboard fittings. (Cupboard elsewhere).	No	1		
	CC2 1				
20	Single bowl wall mounted washtrough (Code KWI-SWT-SON), size 600 x 500mm overall with 20mm stainless steel square tubing brackets bolted to wall with four 6mm anchor bolts.	No	1		
	Un/A 1				
<u>Precast concrete:</u>					
21	'Vanstone' or similar approved double compartment washtrough size 1030 x 650 x 335mm (Code P2-2904) on and including 900mm high left pedestal (code P2-2905) and right pedestal (code P2-2906).	No	3		
	Un/A 3				
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>WASTE UNIONS, ETC</u>					
<u>'Cobra' or similar approved:</u>					
22	32mm Chrome plated basin waste union (code 301). AA3 3	No	3		
23	32mm Chrome plated anti theft plug (code 309-32). Un/A 1	No	1		
24	38mm Chrome plated sink waste union (code 316). AA3 1 CC2 5 DD4 4 DD5 1	No	11		
25	40mm Chrome plated anti theft plug (code 309-40). DD4 4 DD5 1	No	5		
<u>'Vulcathene' or similar approved:</u>					
26	38mm Acid resistant code 504 unslopped laboratory sink waste union. DD3 13	No	13		
<u>TRAPS, ETC</u>					
27	38 x 50mm White rubber 'P' trap with reseal. AA3 1 CC2 5 DD4 4 DD5 1 DD2 1	No	12		
28	38 x 50 x 300mm White rubber double sink combination T-piece with white rubber 'P' trap with reseal. CC2 1	No	1		
<u>'Cobra' brass traps or similar approved etc:</u>					
29	32mm Chrome plated bottle trap with outlet for 40mm PVC (code 345/40). Un/A 2 AA3 2	No	4		
30	40mm Chrome plated bottle trap with outlet for 40mm PVC (code 365/40). DD5 1	No	1		
<u>'Vulcathene' traps or similar approved, etc:</u>					
31	40mm Anti-siphon bottle trap (Code W561). DD3 13	No	13		
<u>FLOOR DRAINS</u>					
32	'Panda Master' or similar approved grade 304 stainless steel floor drain with minimum 75mm water seal, basket, square flat grating and frame, etc with outlet for and coupling to 75mm uPVC pipe. CC2 4	No	4		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
33	'Marley Endura MGT500' or similar approved grease trap, size 600 x 445 x 414mm deep with 'Marley Endura MGT SOL01' solids basket and including joint to 75mm uPVC pipe. CC2 1	No	1		
<u>TAPS, VALVES, ETC</u>					
<u>'Cobra' or similar approved:</u>					
34	15mm Ball-O-Stop valve. AA3 3 CC2 10 DD3 13 DD5 1 DD2 2	No	29		
35	20mm Ball-O-Stop valve. AA3 1 DD3 2 DD5 1	No	4		
36	15mm Chrome plated code 138-15 'Star' undertile stopcock with wall flange. AA3 1 CC2 5	No	6		
37	15mm Chrome plated code 211-15 'Star' pillar tap. AA3 2 DD5 1	No	3		
38	15mm Chrome plated code 106-15 'Star' bibtap. AA3 2	No	2		
39	15mm Chrome plated code KM2-102 demand push button pillar tap. Un/A 2	No	2		
40	15mm Chrome plated code 503-21B elbow action raised nose pillar tap. Un/A 1	No	1		
41	15mm Chrome plated code 166/041 Star wall type sink mixer with overarm swivel outlet and adjustable wall flanges. CC2 5	No	5		
42	15mm Brass code 1050-15 in-line strainer. CC2 2	No	2		
43	20mm Brass code 1050-20 in-line strainer. Un/A 1	No	1		
44	15mm Stainless steel braided flexible hose 400mm long. AA3 2 CC2 10 DD3 13 DD4 4	No	29		
45	25mm Brass code 1050-25 in-line strainer. CC2 1	No	1		
<u>'Genebre' or similar approved:</u>					
46	15mm Code 1009 04 chrome plated prep bowl pillar tap with overarm swivel outlet. DD4 4	No	4		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Franke or similar approved:</u>					
47	'Highrise Swivel' code 115.0193.183 chrome plated pillar type sink mixer with overarm swivel outlet, including two 350mm flexible hoses.	No	2		
	AA3 1 DD2 1				
<u>'Broen-Lab' laboratory water taps or similar approved:</u>					
48	15mm Bench mounted gooseneck swivel tap with faucet. (Code 2534 084 1001-52B)	No	13		
	DD3 13				
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes:</u>					
49	50mm Pipes.	m	35		
	AA3 9 CC2 10 DD4 8				
	DD5 6 DD2 2				
50	75mm Pipes.	m	18		
	AA3 3 CC2 3 DD3 3				
	DD4 3 DD5 3 DD2 3				
51	110mm Pipes.	m	12		
	AA3 10 DD4 2				
52	50mm Pipes chased into brick walls.	m	7		
	AA3 2 CC2 5				
53	50mm Pipes laid in and including trenches under surface beds.	m	8		
	CC2 8				
54	75mm Pipes laid in and including trenches under surface beds.	m	7		
	CC2 7				
55	110mm Pipes laid in and including trenches under surface beds.	m	10		
	CC2 10				
<u>Extra over uPVC pipes for fittings:</u>					
56	50mm BSP adaptor.	No	3		
	CC2 2 DD2 1				
57	50mm Bend.	No	14		
	AA3 4 CC2 4 DD4 4				
	DD5 1 DD2 1				
58	75mm Bend.	No	3		
	CC2 3				
59	110mm Bend.	No	1		
	Un/A 1				
Carried to Collection				R	

					TANDANANI SSS	
		Unit	Quantity	Rate	Amount	
60	50mm Access bend. AA3 3 DD4 8 DD5 2 DD2 1	No	14			
61	110mm Access bend. AA3 8 CC2 5	No	13			
62	110mm Access double junction. AA3 1	No	1			
63	110mm Access double reducing junction. AA3 1 DD4 1	No	2			
64	40mm Junction. AA3 1	No	1			
65	110mm Junction. CC2 2	No	2			
66	110mm Access junction. Un/A 2	No	2			
67	75mm Junction. CC2 2	No	2			
68	110 x 50mm Reducing junction. CC2 4	No	4			
69	110mm Pan connector. Un/A 2	No	2			
70	110mm GI Two-way vent valve. CC2 2 DD4 1	No	3			
<u>'Vulcathene' or similar approved pipes:</u>						
71	51mm Pipes. DD3 26	m	26			
72	51mm Pipes laid in and including trenches under surface beds. DD3 16	m	16			
<u>Extra over 'Vulcathene' or similar approved pipes for fittings:</u>						
73	50mm BSP adaptor. DD3 13	No	13			
74	50mm Bend. DD3 45	No	45			
75	50mm Junction. DD3 8	No	8			
<u>Sundries:</u>						
76	Testing waste pipe system. Item 1	Item				
Carried to Collection				R		

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>WATER SUPPLIES</u>					
<u>'Geberit Mepla ML' multilayer pipes with 'PVDF' couplings or similar approved:</u>					
77	15mm Pipes.	m	5		
	AA3 5				
78	20mm Pipes.	m	8		
	CC2 8				
79	25mm Pipes.	m	12		
	AA3 6 DD3 6				
80	15mm Pipes chased into brick walls.	m	24		
	AA3 2 CC2 6 DD3 3				
	DD4 4 DD5 6 DD2 3				
81	20mm Pipes chased into brick walls.	m	4		
	CC2 4				
82	25mm Pipes chased into brick walls.	m	17		
	AA3 2 CC2 3 DD3 3				
	DD4 3 DD5 3 DD2 3				
<u>Extra over 'Geberit Mepla ML' multilayer pipes for 'PVDF' fittings or similar approved:</u>					
83	15mm Fittings.	No	18		
	AA3 2 CC2 7 DD3 2				
	DD4 2 DD5 3 DD2 2				
84	20mm Fittings.	No	9		
	AA3 1 CC2 8				
85	25mm Fittings.	No	14		
	AA3 1 CC2 2 DD3 3				
	DD4 3 DD5 3 DD2 2				
<u>Extra over 'Geberit Mepla ML' multilayer pipes for gunmetal fittings or similar approved:</u>					
86	15mm Fittings.	No	1		
	Un/A 1				
87	20mm Fittings.	No	1		
	Un/A 1				
<u>Class 2 copper pipes:</u>					
88	15mm Pipes.	m	136		
	Un/A 92 AA3 6 CC2 11				
	DD3 13 DD4 4 DD5 5				
	DD2 5				
89	22mm Pipes.	m	102		
	Un/A 36 AA3 10 CC2 25				
	DD3 24 DD4 6 DD2 1				
Carried to Collection				R	

					TANDANANI SSS	
		Unit	Quantity	Rate	Amount	
90	35mm Pipes. CC2 4	m	4			
91	22mm Pipes chased into brick walls. CC2 5 DD3 5	m	10			
92	15mm Pipes chased into brick walls. Un/A 105 AA3 2 CC2 20 DD3 13	m	140			
93	15mm Pipes laid in and including trenches under surface beds. Un/A 2 DD3 3	m	5			
<u>Extra over Class 2 copper pipes for capillary fittings:</u>						
94	15mm Fittings. AA3 8 CC2 20 DD3 65 DD4 20 DD5 3 DD2 10	No	126			
95	22mm Fittings. AA3 3 CC2 2 DD3 26 DD4 6 DD2 3	No	40			
96	35mm Elbows. CC2 2	No	2			
<u>Extra over Class 2 copper pipes for brass compression fittings:</u>						
97	15mm Fittings. AA3 13 CC2 10 DD3 39 DD5 2 DD2 4	No	68			
98	22mm Fittings. CC2 5 DD3 5 DD2 2	No	12			
99	35mm Elbows. CC2 2	No	2			
<u>Disinfecting:</u>						
100	Disinfecting water pipe system. Un/A 1	Item				
<u>Testing:</u>						
101	Testing water pipe system. Item 1	Item				
<u>ELECTRIC WATER HEATERS</u>						
102	15 Litre 'Ariston Ardris Lux' under counter water heater (3100731) or similar approved. AA3 1 CC2 3 DD2 1	No	5			
Carried to Collection					R	

				TANDANANI SSS			
				Unit	Quantity	Rate	Amount
<u>FIRE APPLIANCES ETC</u>							
<u>Fire extinguishers complete with brackets and varnished meranti backing boards, fixed to wall with expanding bolts including mortices in brickwork:</u>							
103	2kg Carbon dioxide fire extinguisher.			No	5		
	CC2 1	DD3 1	DD4 1				
	DD5 1	DD2 1					
104	4,5kg Carbon dioxide fire extinguisher.			No	30		
	EE1 16	AA3 1	CC2 2				
	DD3 2	DD4 1	DD5 2				
	HH5 4	DD2 2					
105	9kg Dry chemical powder fire extinguisher.			No	4		
	AA3 1	CC2 3					
<u>PIPE INSULATION</u>							
<u>'Isover Snap-On' rigid non-combustable light weight (normal density 88kg per m³) glasswool insulation with canvas facings or similar approved:</u>							
106	Insulation to 15mm diameter pipes including couplings, fittings, valves, etc.			m	1		
	Un/A 1						
107	Insulation to 22mm diameter pipes including couplings, fittings, valves, etc.			m	1		
	Un/A 1						
Carried to Collection						R	

		TANDANANI SSS	
		Amount	
<u>BILL NO. 16</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>COLLECTION</u>			
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Carried To Section Summary	R		

	Unit	Quantity	Rate	Amount																												
<u>SECTION NO. 3</u>																																
<u>BUILDING WORKS</u>																																
<u>BILL NO. 17</u>																																
<u>GLAZING</u>																																
<table><tr><td><u>Key:</u></td><td><u>Location Description:</u></td></tr><tr><td>Un/A</td><td>Unallocated</td></tr><tr><td>EE1</td><td>Single Classroom</td></tr><tr><td>AA3</td><td>Admin Large</td></tr><tr><td>CC2</td><td>DNC Medium</td></tr><tr><td>DD3</td><td>Science Senior</td></tr><tr><td>DD4</td><td>MPC</td></tr><tr><td>DD5</td><td>Computer Lab</td></tr><tr><td>HH1</td><td>Gate House</td></tr><tr><td>HH5</td><td>HOD - Add</td></tr><tr><td>Item</td><td>Item</td></tr><tr><td>DD2</td><td>Library</td></tr><tr><td>FF9</td><td>Undercover Play Area</td></tr><tr><td>I</td><td>Item Location (Auto)</td></tr></table>					<u>Key:</u>	<u>Location Description:</u>	Un/A	Unallocated	EE1	Single Classroom	AA3	Admin Large	CC2	DNC Medium	DD3	Science Senior	DD4	MPC	DD5	Computer Lab	HH1	Gate House	HH5	HOD - Add	Item	Item	DD2	Library	FF9	Undercover Play Area	I	Item Location (Auto)
<u>Key:</u>	<u>Location Description:</u>																															
Un/A	Unallocated																															
EE1	Single Classroom																															
AA3	Admin Large																															
CC2	DNC Medium																															
DD3	Science Senior																															
DD4	MPC																															
DD5	Computer Lab																															
HH1	Gate House																															
HH5	HOD - Add																															
Item	Item																															
DD2	Library																															
FF9	Undercover Play Area																															
I	Item Location (Auto)																															
<u>SUPPLEMENTARY PREAMBLES</u>																																
<u>Laminated Glass:</u>																																
Laminated glass to have polyvinyl butyrol (PVB) interlayer(s).																																
<u>GLAZING TO STEEL WITH PUTTY</u>																																
<u>6,38mm Normal strength clear laminated safety glass:</u>																																
1	Panes exceeding 0,1 m ² and not exceeding 0,5 m ² .	m ²	324																													
	Un/A 1 EE1 165 AA3 37																															
	CC2 39 DD3 9 DD4 11																															
	DD5 16 HH1 6 HH5 27																															
	DD2 13																															
2	Panes exceeding 0,5 m ² and not exceeding 2 m ² .	m ²	4																													
	AA3 1 CC2 2 DD2 1																															
<u>6,38mm Normal strength obscure laminated safety glass:</u>																																
3	Panes exceeding 0,1m ² and not exceeding 0,5 m ² .	m ²	1																													
	Un/A 1																															
<u>GLAZING TO WOOD WITH PINNED ON BEADS (BEADS ELSEWHERE)</u>																																
<u>6,38mm Normal strength clear laminated safety glass:</u>																																
4	Panes exceeding 0,5 m ² and not exceeding 2 m ² .	m ²	6																													
	AA3 1 CC2 4 DD2 1																															
Carried to Collection				R																												

		TANDANANI SSS			
		Unit	Quantity	Rate	Amount
<u>MIRRORS, ETC.</u>					
<u>6,38mm Laminated safety mirror with polished edges holed for and fixed with chromium plated dome capped stainless steel screws with rubber buffers to plugs in brickwork or concrete:</u>					
5	Mirror 450 x 600mm high with four screws.	No	4		
Un/A	2	AA3	2		
Carried to Collection				R	

BILL NO. 17
GLAZING
COLLECTION

TANDANANI SSS
Amount

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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 18</u>				
<u>PAINTWORK</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
EE1	Single Classroom			
AA3	Admin Large			
CC2	DNC Medium			
DD3	Science Senior			
DD4	MPC			
DD5	Computer Lab			
HH1	Gate House			
HH5	HOD - Add			
Item	Item			
DD2	Library			
FF9	Undercover Play Area			
I	Item Location (Auto)			
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>General:</u>				
All paint shall be from an approved paint manufacturer and the complete paint systems are to be applied as recommended by the same manufacturer.				
All work to be executed in strict accordance with the specifications of the paint manufacturer.				
Primers and first coats may be thinned in accordance with the paint specifications of the paint manufacturer to aid the absorption of the paint.				
All surfaces must be sound, clean and have a moisture content of less than 8% for walls generally and 3% for slabs/screeds etc.				

	Unit	Quantity	Rate	TANDANANI SSS Amount
<u>PREPARATORY WORK TO PREVIOUSLY PAINTED SURFACES</u>				
<u>Previously painted plastered surfaces:</u>				
Surfaces shall be thoroughly sanded, washed down (high pressure cleaning to external surfaces), scrubbed with sugar soap to remove dirt and other contaminants, rinsed and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and edges feathered. Areas containing algae shall be treated with sodium hypochlorite solution (household bleach) thinned 1 part bleach to 2 parts water. Cracks shall be opened, filled with 'Polycell Mendall 90' or equal and approved or 'Polycell Polyfilla' or equal and approved exterior filler, and sanded smooth. Bridge repaired areas with crack bridging compound (PWC 520). In the case of previously limewashed surfaces, completely remove all limewash if possible or at least wire brush and scrape down to achieve a 'grey state' exposure of the substrate and apply filler as indicated.				
<u>Previously painted or unpainted granolithic surfaces:</u>				
Surfaces shall be thoroughly sanded, washed down, scrubbed with sugar soap powder solution to remove dirt and other contaminants, rinsed and allowed to dry completely before any paint is applied.				
<u>Previously painted galvanised metal surfaces:</u>				
Surfaces shall be washed with sugar soap, rinsed with water, cleaned down to remove dirt and other contaminants and sanded lightly to provide key for subsequent coats. Blistered or peeling paint shall be completely removed down to bare metal and edges feathered. Any rust encountered shall be removed and bare metal areas cleaned with galvanised iron cleaner and spot primed with galvogrip metal primer.				
<u>Previously painted wood surfaces:</u>				
Surfaces shall be scrubbed with sugar soap to remove dirt and other contaminants, rinsed with water, thoroughly sanded and cleaned down. Blistered or peeling paint shall be completely removed and edges feathered. Cracks and crevices shall be primed, filled with wood filler and sanded smooth. In the case of previously varnished surfaces, all existing varnish must be thoroughly sanded off before new coats are applied.				
Carried to Collection			R	

				Unit	Quantity	Rate	TANDANANI SSS Amount
<u>PAINTWORK TO NEW WORK</u>							
<u>ON FLOATED PLASTER SURFACES</u>							
<u>Prepare surfaces and apply one coat alkali resistant plaster primer and two coats superior low sheen pure acrylic paint or equal and approved:</u>							
1	On internal walls.			m ²	2 884		
	Un/A 653	EE1 818	AA3 316				
	CC2 218	DD3 124	DD4 114				
	DD5 111	HH1 13	HH5 329				
	DD2 162	FF9 26					
<u>Prepare surfaces and apply one coat alkali resistant plaster primer and two coats exterior quality styrene acrylic paint or equal and approved:</u>							
2	On external walls.			m ²	1 406		
	Un/A 133	EE1 495	AA3 86				
	CC2 114	DD3 98	DD4 83				
	DD5 94	HH1 5	HH5 106				
	DD2 166	FF9 26					
<u>Prepare surfaces and apply one coat alkali resistant plaster primer and two coats matt acrylic emulsion paint or equal and approved:</u>							
3	On ceilings.			m ²	111		
	AA3 18	DD3 24	DD4 23				
	DD5 24	HH1 5	DD2 17				
<u>ON PLASTERBOARD SURFACES</u>							
<u>Prepare surfaces and apply one coat gypsum and plaster primer and two coats matt acrylic emulsion paint or equal and approved:</u>							
4	On ceilings and cornices including priming nail heads and cover strips.			m ²	6		
	Un/A 6						
<u>ON FIBRE-CEMENT BOARD SURFACES</u>							
<u>Prepare surfaces and apply one coat bonding liquid and two coats matt acrylic emulsion paint or equal and approved:</u>							
5	On ceilings and cornices including priming nail heads and cover strips.			m ²	2 323		
	EE1 960	AA3 323	CC2 321				
	DD3 123	DD4 108	DD5 133				
	HH5 164	DD2 191					
Carried to Collection						R	

				TANDANANI SSS			
				Unit	Quantity	Rate	Amount
6	On eaves and verge soffit linings including priming nail heads and cover strips.			m ²	476		
	Un/A 9	EE1 209	AA3 42				
	CC2 49	DD3 23	DD4 23				
	DD5 55	HH5 40	DD2 26				
7	On eaves and verge soffit linings not exceeding 300mm wide including priming nail heads and cover strips.			m	388		
	EE1 195	AA3 33	CC2 51				
	DD3 21	HH5 49	DD2 39				
	<u>Prepare surfaces and apply one coat gypsum and plaster primer and two coats eggshell enamel paint or equal and approved:</u>						
8	On fascias and barge boards including priming jointing strips.			m ²	216		
	EE1 62	CC2 39	DD3 8				
	DD4 34	DD5 22	HH5 16				
	DD2 15	FF9 20					
9	On fascias and barge boards not exceeding 300mm girth including priming jointing strips.			m	540		
	EE1 279	AA3 53	CC2 51				
	DD3 31	DD5 35	HH5 53				
	DD2 38						
	<u>ON METAL SURFACES</u>						
	<u>Prepare surfaces, clean with degreaser, spot prime with mild steel primer, apply one coat universal undercoat and two coats gloss enamel paint on factory primed steel or equal and approved:</u>						
10	On recordroom doors and frames.			m ²	28		
	AA3 5	DD3 6	DD4 6				
	DD5 5	DD2 6					
	<u>Prepare surfaces, clean with galvanised iron cleaner, apply one coat galvanised iron primer, one coat universal undercoat and two coats gloss enamel paint on galvanised steel or equal and approved:</u>						
11	On pivot doors and frames.			m ²	80		
	Un/A 80						
12	On door frames.			m ²	147		
	Un/A 12	EE1 41	AA3 15				
	CC2 26	DD3 5	DD4 6				
	DD5 5	HH1 3	HH5 28				
	DD2 6						
13	On cottage pane windows with burglar bars (both sides measured over full flat area).			m ²	572		
	EE1 322	AA3 67	CC2 74				
	DD3 19	DD4 19	DD5 31				
	HH1 11	DD2 29					
Carried to Collection						R	

				TANDANANI SSS			
				Unit	Quantity	Rate	Amount
14	On grille gates (both sides measured over full flat area).			m ²	233		
	EE1 68	AA3 69	CC2 39				
	DD3 9	DD4 8	DD5 8				
	HH1 5	HH5 18	DD2 9				
	<u>ON WOOD SURFACES</u>						
	<u>Prepare surfaces and apply one coat wood primer:</u>						
15	On cornices not exceeding 300mm girth.			m	845		
	EE1 295	AA3 323	CC2 30				
	DD3 33	DD5 38	HH5 60				
	DD2 66						
	<u>Prepare surfaces and apply one coat wood primer, one coat universal undercoat and two coats low gloss non-drip enamel paint or equal and approved:</u>						
16	On doors.			m ²	213		
	Un/A 10	EE1 56	AA3 53				
	CC2 24	DD3 7	DD4 7				
	DD5 7	HH1 4	HH5 42				
	DD2 3						
17	On sash doors with moulded panels.			m ²	41		
	AA3 14	CC2 20	DD2 7				
18	On doors frames.			m ²	5		
	Un/A 5						
19	On skirtings, rails, sills, etc not exceeding 300mm girth.			m	1 291		
	EE1 509	AA3 229	CC2 61				
	DD3 63	DD4 94	DD5 64				
	HH1 8	HH5 172	DD2 91				
20	On fire extinguisher backing boards not exceeding 300mm wide.			m	10		
	CC2 4	DD3 2	DD4 2				
	DD2 2						
	<u>Prepare surfaces and apply one coat wood primer, one coat universal undercoat and two coats gloss enamel paint or equal and approved:</u>						
21	On roof timbers at eaves and verges not exceeding 300mm girth.			m	998		
	EE1 480	AA3 104	CC2 118				
	DD3 50	DD4 50	DD5 119				
	HH5 77						
	<u>Prepare surfaces and apply three coats clear polyurethane varnish:</u>						
22	On notice boards.			m ²	5		
	AA3 5						
Carried to Collection						R	

					Unit	Quantity	Rate	TANDANANI SSS Amount
23	On shelving.				m ²	514		
	AA3	32	CC2	78				
	DD4	70	DD5	46				
	DD2	62						
24	On skirtings, rails, sills, etc not exceeding 300mm girth.				m	1 259		
	EE1	480	AA3	214				
	DD4	140	DD5	94				
	HH5	190	DD2	67				
Carried to Collection							R	

BILL NO. 18
PAINTWORK
COLLECTION

TANDANANI SSS
Amount

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Carried To Section Summary

R

TANDANANI SSS
Amount

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BUILDING WORKS			
SECTION SUMMARY			
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SECTION NO. 4
ELECTRICAL INSTALLATION

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 1: PRELIMINARY & GENERAL**

ITEM	DESCRIPTION	UNIT	TOTAL AMOUNT
1,1	Compliance with General Conditions of Contract Travelling, Out of Town Allowances Fixed: _____ Value related: _____ Time related: _____	Item	
1,2	Establishment of site and provision of buildings and storage facilities including de-establishment of site cleaning and tidying up after completion of contract Fixed: _____ Value related: _____ Time related: _____	Item	
1,3	Full time contract management and supervision of the works including liaison with Principal Contractor and submission of installation programme including weekly revisions thereto from time to time or as may be required Fixed: _____ Value related: _____ Time related: _____	Item	
1,4	Liaison with Local Authority, compliance with O.S.H. Act, Local By-Laws and any other statutory regulations	Item	
1,5	Any additional item not specifically mentioned or included in the Bill of Quantities which the Tenderer may wish to detail.	Item	
1,6	Final Inspection of the works by an accredited representative and signing-off of installation excluding the provision of a Certificate of Compliance measured elsewhere	Item	
1,7	OCCUPATIONAL HEALTH AND SAFETY ACT 1993 AND THE CONSTRUCTION REGULATIONS 2003 It is required of the contractor to study the Occupational Health and Safety Act attached as an additional specification. Provision for pricing of the Occupational Health and Safety Act and the Construction Regulations is made under items 1,16 to 1,30 and it is explicitly pointed out that all the requirements of the abovementioned specification are deemed to be priced hereunder and no additional extras to the contract in this regard shall be entertained. Fixed: _____ Value related: _____ Time related: _____	Item	
1,8	CONTRACTOR'S RISK ASSESSMENT Fixed: _____ Value related: _____ Time related: _____	Item	
1,9	HEALTH AND SAFETY PLAN Fixed: _____ Value related: _____ Time related: _____	Item	
1,10	HEALTH AND SAFETY TRAINING, PROMOTION AND AWARENESS Fixed: _____ Value related: _____ Time related: _____	Item	
	MONITORING AND AUDITS Fixed: _____ Value related: _____ Time related: _____	Item	
1,12	STATUTORY REPORTING Fixed: _____ Value related: _____ Time related: _____	Item	
TOTAL CARRIED FORWARD TO NEXT PAGE			

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 1: PRELIMINARY & GENERAL**

ITEM	DESCRIPTION	UNIT	TOTAL AMOUNT
	<i>Brought Forward</i>		
1,13	MANAGEMENT OF HEALTH AND SAFETY PLAN INCLUDING HEALTH AND SAFETY REP. Fixed: _____ Value related: _____ Time related: _____.	Item	
1,14	PERSONAL PROTECTIVE EQUIPMENT AND PROTECTIVE CLOTHING Fixed: _____ Value related: _____ Time related: _____.	Item	
1,15	EMERGENCY PLANNING AND RESPONSE Fixed: _____ Value related: _____ Time related: _____.	Item	
1,16	DEVELOPMENT OF SAFE WORK PROCEDURES AND METHOD STATEMENTS Fixed: _____ Value related: _____ Time related: _____.	Item	
1,17	HEALTH AND SAFETY FUNCTIONS Fixed: _____ Value related: _____ Time related: _____.	Item	
1,18	MEDICAL SURVEILLANCE Fixed: _____ Value related: _____ Time related: _____.	Item	
1,19	SPECIAL CLOTHING FOR WORKFORCE Fixed: _____ Value related: _____ Time related: _____.	Item	
1,20	IDENTITY CARDS Fixed: _____ Value related: _____ Time related: _____.	Item	
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE			

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 2: LV DISTRIBUTION BOARDS**

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
1	LV DISTRIBUTION BOARDS The supply, installation and commissioning of complete distribution boards, including all busbars and switchgear as specified and shown on drawing, and to standard specification				
1,1	Main Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/100E and equipped labelled SDB-ADMIN Supply Install	unit unit	1 1		
1,2	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/101E and equipped labelled SDB-2CLR+HOD 1 Supply Install	unit unit	1 1		
1,3	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/101E and equipped labelled SDB-2CLR+HOD 2 Supply Install	unit unit	1 1		
1,4	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/101E and equipped labelled SDB-2CLR+HOD 3 Supply Install	unit unit	1 1		
1,5	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/102E and equipped labelled SDB-5CLR+HOD 1 Supply Install	unit unit	1 1		
1,6	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/103E and equipped labelled SDB-5CLR Supply Install	unit unit	1 1		
1,7	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/104E and equipped labelled SDB-DNC Supply Install	unit unit	1 1		
1,8	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/105E and equipped labelled SDB-COMPUTER Supply Install	unit unit	1 1		
1,9	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/106E and equipped labelled SDB-LIBRARY Supply Install	unit unit	1 1		
1,10	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/107E and equipped labelled SDB-SCIENCE Supply Install	unit unit	1 1		
TOTAL CARRIED FORWARD TO NEXT PAGE					

TANDANAN SENIOR SECONDARY SCHOOL

BILL NO. 2: LV DISTRIBUTION BOARDS

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
	<i>Brought Forward</i>				
1,11	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/108E and equipped labelled SDB-MULTIPURPOSE				
	Supply	unit	1		
	Install	unit	1		
1,12	Sub-Distribution Board for Normal Supply as shown on Drawing No. CAR20E/2018/TSSS/109E and equipped labelled SDB-GATE HOUSE				
	Supply	unit	1		
	Install	unit	1		
	<u>Test, Inspections and Commissioning</u>				
2	Test and commissioning of Distribution Boards to the Client and Engineer satisfaction including all the necessary test equipment.	Sum	1		Rate Only
3	<u>Switchgear</u>				
3,1	5-60 amp SP MCB - 5kA				
	Supply	each	1		Rate Only
	Install	each	1		Rate Only
3,2	5-60 amp DP MCB - 5kA				
	Supply	each	1		Rate Only
	Install	each	1		Rate Only
3,3	5-60 amp TP MCB - 5kA				
	Supply	each	1		Rate Only
	Install	each	1		Rate Only
3,4	30-60 amp DP earth leakage relay - 5kA Isolator Type				
	Supply	each	1		Rate Only
	Install	each	1		Rate Only
3,5	20-60 amp DP isolator				
	Supply	each	1		Rate Only
	Install	each	1		Rate Only
3,6	20-60 amp TP isolator				
	Supply	each	1		Rate Only
	Install	each	1		Rate Only
3,7	SAL Lightning Arrester 230V, Class 1 & 2				
	Supply	each	1		Rate Only
	Install	each	1		Rate Only
3,8	SP 20A, 230V combined timer & contactor (Lights)				
	Supply	each	1		Rate Only
	Install	each	1		Rate Only
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 3: MAINS CABLING & SUBMAINS WIRING**

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
1	<u>CABLING</u> The supply and installation of cable and earth wire drawn through horizontal ducting, cable sleeve in trench or on cable tray.				
1,1	35mm ² x 4 core PVCPVCSWAPVC cable				
	Supply	m	10		
	Install	m	10		
	Terminations	each	2		
1,2	25mm ² x 4 core PVCPVCSWAPVC cable				
	Supply	m	50		
	Install	m	50		
	Terminations	each	2		
1,3	16mm ² x 3 core PVCPVCSWAPVC cable				
	Supply	m	70		
	Install	m	70		
	Terminations	each	2		
1,4	10mm ² x 3 core PVCPVCSWAPVC cable				
	Supply	m	70		
	Install	m	70		
	Terminations	each	4		
1,5	6mm ² x 3 core PVCPVCSWAPVC cable				
	Supply	m	160		
	Install	m	160		
	Terminations	each	8		
1,6	4mm ² x 3 core PVCPVCSWAPVC cable				
	Supply	m	70		
	Install	m	70		
	Terminations	each	6		
2	Earthing				
2,1	16mm ² bare copper earth wire including terminations run in cable trench and bonded to the earth studs in the control gear enclosure.				
	Supply	each	200		
	Install	each	200		
2,2	1.5m copper earth spikes including bonding				
	Supply	No.	20		
	Install	No.	20		
3	<u>Excavations for cables in trenches (450mm wide x 600mm deep)</u>				
3,1	Excavate in normal earth	m	400		
3,2	Allow for Soft Rock in above trench	m ³	40		
3,3	Allow for Hard Rock in above trench	m ³	40		
3,4	Allow for earth in above trench	m ³	60		
TOTAL CARRIED FORWARD TO NEXT PAGE					

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 3: MAINS CABLING & SUBMAINS WIRING**

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
	<i>Brought Forward</i>				
4	Cable Markers as per specification (Danger tape)				
	Supply	each	2		
	Install	each	2		
5	Supply and install 110 mm Ø sleeves c/w bends etc for main supply cables				
	Supply	m	120		
	Install	m	120		
6	Supply and install 75 mm Ø sleeves c/w bends etc for main supply cables				
	Supply	m	30		
	Install	m	30		
7	Supply and install 50 mm Ø sleeves c/w bends etc for main supply cables				
	Supply	m	250		
	Install	m	250		
8	Cable sleeves seal				
	Supply	each	5		
	Install	each	5		
9	Galvanised steel draw wire				
	Supply	m	500		
	Install	m	500		
10	1000mm x 1000mm x 800mm deep manholes for electrical cables c/w heavy duty manhole covers				
	Supply	each	2		
	Install	each	2		
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 4: GENERAL LIGHTING**

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
1	<u>CONDUIT</u> The supply and installation of conduit including cutting, drawboxes and fixing materials cast in concrete, on surface, in roof space, built into brickwork, dry walls, fitted to trusses etc.				
1,1	20mm diameter pvc conduit Supply	m	4000		
	Install	m	4000		
2	<u>CONDUIT ACCESSORIES - All pvc plain ended</u> The supply and installation of drawboxes including locknuts, bushes, coverplates, fixing materials when required.				
2,1	Lightweight round, deep back or side entry for 20mm dia conduit cast in concrete or roofspace, average for 1,2,3 and 4 ways Supply	each	300		
	Install	each	300		
2,2	Lightweight round shallow back or side entry type for 20mm dia conduit on surface in open roofspace and built into wall averaged for 1,2,3 and 4 ways Supply	each	300		
	Install	each	300		
2,3	Galvanised bosal, 100 x 50 x 50 switch boxes for 20mm dia conduit built into brickwork or cast into concrete (coverplates measured elsewhere) Supply	each	100		
	Install	each	100		
2,4	16 amp single lever, one way flush mounted rocker type light switch with coverplate. Supply	each	40		
	Install	each	40		
2,5	16 amp 2 lever, one way flush mounted rocker type light switch with coverplate. Supply	each	5		
	Install	each	5		
2,6	16 amp single lever, two way flush mounted rocker type light switch with coverplate. Supply	each	5		
	Install	each	5		
2,7	5A switchless socket outlets for various light fittings as specified Supply	each	300		
	Install	each	300		
TOTAL CARRIED FORWARD TO NEXT PAGE					

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 4: GENERAL LIGHTING**

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
	<i>Brought Forward</i>				
2,8	16 amp waco type photo cell				
	Supply	each	15		
	Install	each	15		
3	<u>CONDUCTORS</u>				
	The supply and installation of PVC insulated single core stranded copper conductors drawn into conduits				
3,1	2,5mm ² PVC black & red (Lights)				
	Supply	m	12000		
	Install	m	12000		
3,2	2,5mm ² PVC green/yellow earth wire				
	Supply	m	6000		
	Install	m	6000		
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

TANDANANI SENIOR SECONDARY SCHOOL

BILL NO. 5: LUMINAIRES

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
	Supply, take delivery, unpack, test fittings, including installation, materials, connections, fluorescent, LED and compact fluorescent lamps. All fluorescents to be triphosphor cool white controlled via ECG <u>All luminaires to be energy efficient type, employing the latest technology in energy efficiency, electronic control gear etc</u>				
1	Type A				
	Supply	each	300		
	Install	each	300		
2	Type B				
	Supply	each	100		
	Install	each	100		
3	Type C				
	Supply	each	8		
	Install	each	8		
4	Type D				
	Supply	each	1		
	Install	each	1		
5	Type E				
	Supply	each	4		
	Install	each	4		
	Note:- The Bulkhead Fittings must be insect proof and fit snugly on to the walls and ceilings. Conductors must pass through grommets to prevent insects and water from entering the fitting. The lamp compartment shall be rated IP 35 and generally comply to SABS 1222. Shared ballasts are not acceptable.				
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

TANDANAN SENIOR SECONDARY SCHOOL**BILL NO. 6: POWER**

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
1	<u>CONDUIT</u> The supply and installation of conduit including cutting, drawboxes and fixing materials cast in concrete, on surface, in roof space, built into brickwork, fitted to trusses et cetera				
1,1	25mm dia Supply Install	m m	3500 3500		
1,2	32mm dia Supply Install	m m	100 100		
2	<u>CONDUIT ACCESSORIES</u> The supply of galvanised drawboxes including locknuts, bushes coverplates, fixing materials when required et cetera. Round, shallow back or side entry box for conduit built into walls, in open roof spaces and on on surface average for 1,2,3 and 4 way				
2,1	Round box for 25mm Supply Install	No. No.	300 300		
2,2	Round box for 32mm Supply Install	No. No.	10 10		
2,3	Galvanised steel, 100 x 100 x 50mm box for 20mm conduit built into brickwork or cast in concrete. (coverplates measured elsewhere) Supply Install	No. No.	100 100		
3	<u>CONDUCTORS</u> The supply and installation of PVC insulated stranded single core copper conductors drawn into conduits and ducting				
3,1	6mm ² PVC red and black Supply Install	m m	1600 1600		
3,2	4mm ² PVC red and black Supply Install	m m	10000 10000		
3,3	4mm ² PVC insulated green/yellow earth wire Supply Install	m m	800 800		
3,4	2,5mm ² PVC insulated green/yellow earth wire Supply Install	m m	5000 5000		
4	<u>EQUIPMENT AND CONTROL</u>				
4,1	30Amp DP flush mounted weatherproof isolator with neutral and earth for AC Units and Ventilation Supply Install	each each	6 6		
TOTAL CARRIED FOEWARD TO THE NEXT PAGE					

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 6: POWER**

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
	<i>Brought Forward</i>				
4,2	30Amp DP flush mounted weatherproof isolator with neutral and earth for Kitchen Extraction				
	Supply	each	1		
	Install	each	1		
4,3	30Amp DP flush mounted weatherproof isolator with neutral and earth for Science Lab Extraction				
	Supply	each	1		
	Install	each	1		
4,4	30Amp DP flush mounted weatherproof isolator with neutral and earth for Water Heating				
	Supply	each	2		
	Install	each	2		
4,5	16A double socket outlet complete with equal handed toggles and cover plates. The toggles must both be up for off and down for on				
	Supply	each	100		
	Install	each	100		
5	<u>POWER SKIRTING AND DUCTING</u>				
	The supply and installation of modular pre-galvanised 3 compartment power ducting complete with 2 separate clip on steel full length covers colour sandstone				
5,1	2 compartment P801 power ducting complete with 2 covers				
	Supply	m	100		
	Install	m	100		
5,2	Endcap/top end				
	Supply	each	60		
	Install	each	60		
5,3	16 Amp 3 pin round socket outlet white				
	Supply	each	90		
	Install	each	90		
5,4	16 Amp 3 pin flat dedicated socket outlet red				
	Supply	each	70		
	Install	each	70		
5,5	RJ45 outlet				
	Supply	each	75		
	Install	each	75		
5,6	RJ11 outlet				
	Supply	each	25		
	Install	each	25		
5,7	Inside Bend				
	Supply	each	3		
	Install	each	3		
5,8	Outside Bend				
	Supply	each	2		
	Install	each	2		
5,9	Corner Riser				
	Supply	each	5		
	Install	each	5		
Note	Reminder. Power circuits are 4mm ² PVC conductors with 2.5mm ² earthwire				
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 7: TELEPHONE AND LAN SYSTEM WIREWAYS**

ITEM	DESCRIPTION	UNIT	QNTY	RATE	TOTAL AMOUNT
	<u>CONDUIT</u>				
	All conduit and accessories to be plain ended galvanised steel. The supply and installation of conduit including cutting drawboxes and fixing materials cast in concrete, on surface, in roof space, built into brickwork, fitted to trusses et cetera				
1	25mm				
	Supply	m	350		
	Install	m	350		
	Note:- 20 Ø is not to be used for Telkom. The conduit system must be looped when not run from street duct to phone outlet or power skirting i.e. the whole conduit system must be easily accessible with draw wires as Telkom will not climb into roof space				
	<u>CONDUIT ACCESSORIES</u>				
	The supply, installation of drawboxes including locknuts, bushes, coverplates, fixing materials.				
2	100 x 100 x 50 galvanised basal drawboxes for 25mm conduit built into brickwork including coverplates				
	Supply	each	10		
	Install	each	10		
3	The supply and installation of galvanised steel draw wires drawn into conduit				
	Supply	m	500		
	Install	m	500		
	The supply and installation of flush board with soft wood backing architrave and hinged door as specified				
4	450 x 450 x 100mm Telkom board				
	Supply	No.	1		
	Install	No.	1		
5	600mm x 600mm x 800mm deep manholes for Telkom cables c/w heavy duty manhole covers				
	Supply	No.	2		
	Install	No.	2		
	Excavations for cables in trenches (450mm x 450mm x 600mm deep)				
6	Excavate in normal earth	m	400		
6,1	Allow for Soft Rock in above trench	m³	40		
6,2	Allow for Hard Rock in above trench	m³	40		
6,3	Allow for earth in above trench	m³	60		
7	Supply and install 110 mm Ø sleeves c/w bends etc for telkom				
	Supply	m	400		
	Install	m	400		
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

TANDANANI SENIOR SECONDARY SCHOOL**BILL NO. 8: INTERCOM, BELL & PA SYSTEM**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
	<u>Intercom, Bell and Public Address System</u>				
1	Intercom Master Station as specified				
	Supply	each	1		
	Install	each	1		
2	Bell as specified				
	Supply	each	1		
	Install	each	1		
3	Time Switch as specified				
	Supply	each	1		
	Install	each	1		
4	Substations as specified				
	Supply	each	40		
	Install	each	40		
5	120W power amplifier as specified				
	Supply	each	1		
	Install	each	1		
6	Cordless microphone as specified				
	Supply	each	1		
	Install	each	1		
7	Desktop microphone as specified				
	Supply	each	1		
	Install	each	1		
8	20W horn speakers as specified				
	Supply	each	4		
	Install	each	4		
9	Rack as specified				
	Supply	each	1		
	Install	each	1		
10	Transmission medium				
	Supply	Sum	1		
	Install	Sum	1		
11	Compilation of Operation and Maintenance Manuals	No.	1		
12	Items left out of Document deemed necessary to complete the installation Description:	No.	1		
13	<u>Miscellaneous items</u>				
13,1	Training of personnel: period equivalent to 8 hours	Sum	1		
	Provide & complete training register including signing off by the				
13,2	School	Sum	1		
13,3	Provide data pack including asbuilts and SLDs	Sum	1		
13,4	1kVA Uninterruptable power supply	Item	1		
13,5	Testing and commisioning of the installation and issuing of tests reports.	Sum	1		
13,6	12 Month Maintanance as per specification (Quately Service)	No.	4		
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

TANDANANI SENIOR SECONDARY SCHOOL

BILL NO. 9: SUNDRY ITEMS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
1	Housekeeping, sundry items, consumable stocks such as circuit beads engraving, labels etc.	Sum	1		
2	Testing of complete installation in terms of the regulations	Each	11		
3	Provide for the earthing of the new buildings to wiring code including provision	Each	11		
4	Provide Certificates of Compliance	Each	11		
5	Systematic tracing & stripping of existing electrical installation, including production of as-built drawings for existing system before stripping and stripping electrical installation of existing buildings.	Sum	1		
6	<u>Marking and Engraved Labelling of Circuits and Distribution Boards</u> Distribution boards, dedicated and normal socket outlets, isolators, light switches and cables shall be properly labelled and marked as indicated in the drawings and outlined in the specifications.				
6,1	Distribution Boards	No.	11		
6,2	Normal and Dedicated Socket Outlets	No.	250		
6,3	Isolators	No.	15		
6,4	Light Switches	No.	55		
6,5	Cables (Marked and Labelled on the Exit and Entry Point of Kiosks, MDBs and SDBs with Grafoplast Trasp PVC Markers)	No.	22		
7	<u>Dayworks (general)</u> Personnel:				
7,1	- Electrician	hour	1		Rate Only
7,2	- Assistant (skilled)	hour	1		Rate Only
7,3	- Assistant (unskilled)	hour	1		Rate Only
	Travelling:				
7,4	- Small vehicle (van) up to 1 ton capacity	km	1		Rate Only
7,5	- Truck (specify capacity below)	km	1		Rate Only
8	<u>Provisional Sums</u>				
8,1	Lightning Protection Installation Profit Attendance	Sum % %	1	R 200 000,00	R 200 000,00
8,2	Eskom 32kVA Transformer Profit Attendance	Sum % %	1	R 200 000,00	R 200 000,00
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

TANDANANI SENIOR SECONDARY SCHOOL

PRICE SUMMARY

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>TOTAL AMOUNT</u>
Bill No. 1	Preliminary & General	
Bill No. 2	LV Distribution Boards	
Bill No. 3	Mains Cabling & Sub Mains Wiring	
Bill No. 4	General Lighting	
Bill No. 5	Luminaires	
Bill No. 6	Power	
Bill No. 7	Telephone Conduit and Ducting	
Bill No. 8	Intercom, Bell and PA System	
Bill No. 9	Sundry Items	
Subtotal		
Contingencies @10%		
Subtotal		
VAT (15%)		
TOTAL ELECTRICAL AMOUNT (INCLUDING VAT)		

NAME OF FIRM:

TENDERER'S SIGNATURE

NAME IN PRINT

ADDRESS

DATE

TEL NO.

FAX NO.

TANDANANI SENIOR SECONDARY SCHOOL

REMINDER NOTE

The **Total Price** including Main Contractor's Mark-up **which excludes VAT**, must be carried over to the final summary and all fixed amounts shown in the price schedule must be included therein. No adjustments will be made for any failure by Tenderers to include the fixed amounts in the **Total Price** for this particular installation.

ELECTRICAL SUB-CONTRACTOR'S NAME:

DATE:

SIGNATURE:

N.B. The above-named Sub-Contractor is to be employed on this contract. Substitute Sub-Contractors are not acceptable.

Include the Mark up **BUT** Exclude the VAT when transferring price to Part "A" of the Main Contractor's Documentation.

SECTION NO. 5
MECHANICAL INSTALLATION

BILL NO. 01: SOLAR HOT-WATER STORAGE GENERATING SYSTEMS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	General Items				
1	Provision of installation/ workshop drawings and builder's work drawings for approval of engineer	sum	1		
2	Submit detailed equipment schedules for approval	sum	1		
3	Provide "As Built drawings" (sets)	set	3		
4	Maintenance and Operating Manuals				
4,1	Hard copy format only	set	3		
4,2	Electronic media format only	set	3		
5	Comprehensive maintenance during the 12-month or extended guarantee period as per detailed specification.	sum	1		
	Supply, delivery to site and installation of High Pressure type thermo-syphon roof Solar Hot Water Storage Generating Systems (direct heat exchange flat plate in a split circuit) complete with storage tanks, collector panels, electrical control equipment, wiring, cabling, panels, etc., all comply fully with the Detailed Specification and applicable SANS Specifications				
6	150 litres storage tank and collectors c/w tp safety valve and drain cock ball valve, vacuum breakers, thermostat, electrical heating (Incolloy) elements, pipework and pipework insulation	each	1		
	Supply, delivery to site and installation of expansion relief valve				
7	400 kPa combination pressure reducing expansion relief and non return valve	each	2		
	Supply, delivery to site and installation of drip tray's:				
8	1200 x 600mm heavy duty Polyethylene drip trays with 50mm diameter PVC adaptor for connecting the waste pipe to the tray	each	1		
9	1600 x 600mm heavy duty Polyethylene drip trays with 50mm diameter PVC adaptor for connecting the waste pipe to the tray	each	0		
	HYDROBOIL				
10	Supply and install a 7,5L 1,5kW hydroboil at the admin kitchen				
	Testing and commissioning				
11	Allow for testing the water pipe reticulation installation (pipe supplies to isolating valves) in accordance with the National Building Regulations	sum	2		
12	Testing, commissioning and signing off of the solar hot water storage generating systems installation in accordance with SANS standards	sum	2		
13	Training of User's Staff in the operation of the solar hot water storage generating systems	hours	1		
TOTAL CARRIED FORWARD TO THE NEXT PAGE					

Tandanani SSS**BILL NO. 02: LIQUIFIED PETROLEUM GAS (L.P.G.) INSTALLATION**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	Liquefied Petroleum Gas Cylinder Installations comply in all respects with SANS 10087 and all other applicable standards. The Contractor to employ a Liquefied Petroleum Gas (L.P.G.) specialist registered with LPGASASA, SAQCC Gas for the complete supply and installation of the complete Liquefied Petroleum Gas Installation/s.				
	General Items				
1	Provision of installation/ workshop drawings and builder's work drawings for approval of engineer	sum	1		
2	Submit detailed equipment schedules for approval	sum	1		
3	Provide "As Built drawings" (sets)	set	3		
4	Maintenance and Operating Manuals				
4.1	Hard copy format only	set	3		
4.2	Electronic media format only	set	3		
5	Comprehensive maintenance during the 12-month or extended guarantee period as per detailed specification.	sum	1		
	Capillary type copper tube fittings to SANS. 1067 including cutting, reaming and soldering of joints with hard type solder and pipe supports as specified. Pipework to run on surface, in Sleeve chased in wall, or in protective channel. Straight couplers, fitting reducers and bends up to 28 dia will not be measured as separate items and are to be included in the rates for straight piping.				
	Copper Pipework - LP Gas Supply, delivery to site and installation to SANS 460 copper pipework Class 2.				
6	10 dia (3/8")	metre	46		
7	15 dia (5/8")	metre	15		
8	20 dia (3/4")	metre	45		
	Tee - Solder to Solder				
9	10 dia (3/8")	each	5		
10	15 dia (5/8")	each	1		
11	20 dia (3/4")	each	11		
TOTAL CARRIED FORWARD TO NEXT PAGE					

Tandanani SSS**BILL NO. 02: LIQUIFIED PETROLEIUM GAS (L.P.G.) INSTALLATION (cont.)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
TOTAL BROUGHT FORWARD					
12	Adapters Male or Female to copper adapter 10 dia (3/8")	each	12		
13	15 dia (5/8")	each	6		
14	20 dia (3/4")	each	13		
15	LP Gas "Brownall" Bench mounted Double Gas outlet with drop lever gas cock, hose nozzle & anti-rotational plate	each	9		
16	LP Gas "Brownall" Bench mounted Single Gas outlet with drop lever gas cock, hose nozzle & anti-rotational plate	each	4		
	Valves Supply, Delivery to Site and Installation of nickel plated brass Ball Valves with PTFE seats, renewable seals and seats				
17	10 dia (3/8")	each	1		
18	15 dia (5/8")	each	2		
19	20 dia (3/4")	each	9		
	Supply, Delivery to Site and Installation of galvanised mild steel channel for the protection of LPG copper tubes including all fixing material, and Identification colour marking				
20	250mm wide x 50mm deep x 0,6mm thick plate	metre	4		
21	50mm wide x 50mm deep x 0,6mm thick plate	metre	80		
	Supply, Delivery to Site and Installation of wall & floor sleeves including drilling of holes, securing/grouting of sleeves and making good				
22	Sleeve 50mm for LPG piping	metre	16		
23	100 x 100 box for LPG piping	each	8		
	Supply, Delivery to Site and Installation of wall & floor sleeves including drilling of holes, securing/ grouting of sleeves and making good				
24	32mm dia PVC rigid conduits with slow bends for LPG piping	metre	12		
TOTAL CARRIED FORWARD TO NEXT PAGE					

Tandanani SSS**BILL NO. 02: LIQUIFIED PETROLEUM GAS (L.P.G.) INSTALLATION (cont.)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
TOTAL BROUGHT FORWARD					
25	Supply and fixing of all signage and Identification colour marking as required by SANS 10087 and specified in this section Provide hot dip galvanised expanded metal lockable LPG enclosure, in compliance with SANS 10087.	sum	2		
26	2x 48kg LPG Cylinder Enclosure	item	1		
27	4x 48kg LPG Cylinder Enclosure Supply and delivery to site of full cylinders to be handed over to User Department (note cylinders not to be used for commissioning purposes Contractor allow separately for all gas required for commissioning)	item	1		
28	LPG (48 kg) Manifolds Supply, delivery to site and installation of LPG cylinder bank manifolds in accordance with the specifications. Price to include regulators, manual changeover valve, flexible hoses connections, and all fixing material	each	6		
29	Double one LPG bank	each	1		
30	Double two LPG bank Supply, delivery to site and installation of cylinder bank hot dip galvanised stands c/w holding chains according to the specification. Price to include all fixing material	each	1		
31	Double one LPG bank	each	1		
32	Double two LPG bank Testing and Commissioning The Contractor shall allow for the purging, testing and commissioning of the complete of Liquefied Petroleum Gas Cylinder Installation as specified in this section.	each	1		
33	The Contractor shall allow for the provision of a Certificate of Conformity of the Liquefied Petroleum Gas Cylinder Installations to SANS 10087	item	2		
34	Training of User's Staff in the safe operation of Liquefied Petroleum Gas Cylinder Installation	hr	2		
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

BILL NO. 03: FUME CABINET EXTRACTION SYSTEM

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	General Items				
1	Provision of installation/ workshop drawings and builder's work drawings for approval of engineer	sum	1		
2	Submit detailed equipment schedules for approval	sum	1		
3	Provide "As Built drawings" (sets)	set	3		
4	Maintenance and Operating Manuals				
4,1	Hard copy format only	set	3		
4,2	Electronic media format only	set	3		
5	Comprehensive maintenance during the 12-month or extended guarantee period as per detailed specification.	sum	1		
	Chemical Fume Cabinet				
6	Supply and install polypropylene chemical fume cabinet 1500 x 820 x 1500mm high c/w 250 exhaust air spigot, vertical Sash, laminar flow Baffles, oval cupsink flush in work surface, LPG gas outlet, water spout, control valve, 1200 double tube fluorescent light fitting (electronic ballast type), 16 amp plug sockets, light and fan switch, all as per detailed specification.	each	1		
7	Exhaust Ductwork Unless otherwise specified all exhaust ductwork shall be supplied c/w all the necessary stainless steel rods, angle supports and brackets Circular Ductwork PVC				
8	200mm dia	metre	5		
9	200mm dia 45 deg long radius bends	each	2		
10	250 to 200 dia reducer	each	1		
11	200mm dia equal tees	each	1		
12	200mm dia end cap with plug	each	1		
13	200 dia x 800mm Zero pressuer weather cap	each	1		
	Extract Fan Supply and install direct drive wall mounted extract air flow fan c/w polypropylene fan casting and impeller, st/st stand and anti vibration mounting bracket, all the necessary controls and wiring to the local isolator for chemical fume cabinet.				
14	1,17m³/h @ 300Pa exhaust capacity	each	1		
TOTAL CARRIED FORWARD TO THE NEXT PAGE					

BILL NO. 03: FUME CABINET EXTRACTION SYSTEM (cont.)

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
TOTAL BROUGHT FORWARD					
	<u>Mounting Frame</u>				
15	Supply and install mild steel 32 x 32mm frame epoxy powder coated 1500 x 820 x 900mm high c/w adjustable rubber footings	each	1		
	<u>Testing and commissioning</u>				
16	Testing, commissioning and signing off of the chemical fume cabinet extraction system	sum	1		
17	Training of User's Staff in the operation of the chemical fume cabinet extraction systems	hours	2		
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

BILL NO. 04: KITCHEN EQUIPMENT INSTALLATION

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	<u>GENERAL ITEMS</u>				
1	Provision of installation/ workshop drawings and builder's work drawings for approval of engineer	sum	1		
2	Submit detailed equipment schedules for approval	sum	1		
3	Provide "As Built drawings" (sets)	set	3		
4	Maintenance and Operating Manuals				
4,1	Hard copy format only	set	3		
4,2	Electronic media format only	set	3		
5	Comprehensive maintenance during the 12-month or extended guarantee period as per detailed specification.	sum	1		
	Supply, delivery to site and installation of kitchen equipment including placing in position and connecting to power, gas and water and comply fully with the Detailed Specification and applicable SANS Specifications				
	<u>GAS COOKING EQUIPMENT</u>				
6	Industrial Staggered 4 (four) Burner Boiling Table Stainless Steel c/w Solid Undershelf	each	2		
	<u>SERVING EQUIPMENT</u>				
7	1785 x 775mm Stainless steel five division Bain Marie with hot cupboard	each	1		
	Supply Gastronorm Bain Marie inserts c/w insert lids				
7,1	1/1 insert 150 mm deep	each	2		
7,2	1/2 insert 150 mm deep	each	4		
7,3	1/3 insert 150 mm deep	each	3		
8	1105 x 750mm stainless steel unheated counter cupboard	each	1		
	<u>REFRIGERATION EQUIPMENT</u>				
9	Industrial double solid door stainless steel upright freezer (1300 litre)	each	1		
TOTAL CARRIED FORWARD TO NEXT PAGE					

BILL NO. 04: KITCHEN EQUIPMENT INSTALLATION (cont.)

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
TOTAL BROUGHT FORWARD					
10	Industrial double solid door stainless steel upright refrigerator (1300 litre) Supply and installation of tables, sinks, stands and other equipment excluding plumbing in and/or connections to drains <u>TABLES</u>	each	1		
11	1650 x 650 x 910 mm high stainless steel table c/w rear splash back and tubular stainless steel bottom shelf.	each	8		
12	1050 x 650 x 910 mm high stainless steel table c/w rear splash back and tubular stainless steel bottom shelf. <u>SINKS</u>	each	1		
13	1850 x 650 x 910 mm high stainless steel double combination preparation and pot sink left hand bowls c/w rear splash back and tubular stainless steel bottom shelf.	each	1		
14	1850 x 650 x 910 mm high stainless steel double combination preparation and pot sink right hand bowls c/w rear splash back and tubular stainless steel bottom shelf.	each	1		
15	2250 x 650 x 910 mm high stainless steel double pot sink c/w rear splash back and tubular stainless steel bottom shelf. <u>FIXED RACKS</u>	each	1		
16	860 x 600 x 300 stainless steel dunnage racks	each	4		
17	915 x 640 x 1590 four basket vegetable racks <u>MOBILE RACKS</u>	each	3		
18	Mobile pot rack	each	1		
19	Mobile crockery rack (400 piece)	each	1		
TOTAL CARRIED FORWARD TO NEXT PAGE					

BILL NO. 04: KITCHEN EQUIPMENT INSTALLATION (cont.)

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
TOTAL BROUGHT FORWARD					R -
	<u>FLOOR STANDING STAINLESS STEEL</u>				
20	1150 x 500 x 1442mm high stainless steel shelving unit c/w four solid selves	each	3		
	<u>TESTING AND COMMISSIONING</u>				
21	Allow for testing the commissioning of the complete Kitchen Equipment Installation as specified	item	1		
22	Allow for testing the commissioning of the complete Gas Cooking Equipment Installation as specified	item	1		
23	Testing, commissioning and signing off of the kitchen equipment installation in accordance with SANS standards	item	1		
24	Training of User's Staff in the safe operation of the gas cooking equipment	hr	2		
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

BILL NO. 05: KITCHEN EXTRACTION SYSTEM

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	General Items				
1	Provision of installation/ workshop drawings and builder's work drawings for approval of engineer	sum	1		
2	Submit detailed equipment schedules for approval	sum	1		
3	Provide "As Built drawings" (sets)	set	3		
4	Maintenance and Operating Manuals				
4,1	Hard copy format only	set	3		
4,2	Electronic media format only	set	3		
5	Comprehensive maintenance during the 12-month or extended guarantee period as per detailed specification.	sum	1		
	<u>Kitchen Canopy</u>				
6	Supply and install AISI grade 304 stainless steel box type kitchen canopy 1200 x 1400 c/w 325 x 400 st/st exhaust air spigot and externally resettable fire damper. Canopy to include flush type 1200 double tube fluorescent light fitting (electronic ballast type), start stop switch and two Cyclodean 500 x 500 labyrinth washable type filters.	each	2		
	<u>Stainless Steel Ductwork (Un-Insulated)</u>				
	Unless otherwise specified all stainless steel ductwork shall be supplied c/w all the necessary stainless steel rods, angle supports and brackets				
	Circular Ductwork				
7	630 dia	metre	3		
	Rectangular Ductwork Uninsulated				
8	650 x 650	metre	1		
	Duct transformations, duct ends, spigots and duct take-				
9	650 x 650 duct end	each	1		
10	575 x 575 to 630 dia transformation (fan inlet)	each	1		
11	650 x 650 to 630 dia transformation	each	1		
12	350 x 400 rectangular take-off in rectangular duct c/w app 450 long spigot	each	2		
	Radiussed bends				
13	90 deg radiused bend 630 dia	each	2		
TOTAL CARRIED FORWARD TO THE NEXT PAGE					

BILL NO. 05: KITCHEN EXTRACTION SYSTEM (cont.)

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
TOTAL BROUGHT FORWARD					
	<u>Mixed Flow Roof Extract Fan</u>				
	Supply and install Low profile mixed flow roof extract fan c/w weather cap, weather skirt, flashing, all the necessary controls and wiring to local isolator for				
14	1,5m³/s@350Pa exhaust capacity	each	1		
	<u>Sound Attenuator (Pod Type)</u>				
15	630 dia x 1260 long	each	1		
	<u>Testing and commissioning</u>				
16	Testing, commissioning and signing off of the kitchen extraction system (Labour)	sum	1		
17	Training of User's Staff in the operation of the chemical fume cabinet extraction systems	hours	2		
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

BILL NO .6: AIR CONDITIONING APPLIANCES

Item No	Description	Unit	Qty	Rate	Total Amount
	SUPPLY AND INSTALL NEW EQUIPMENT AIR CONDITIONING APPLIANCES Supply, delivery to site and installation of split heat pump inverter drive type units c/w controller (as specified) and all refrigerant and drain piping, control cabling and condenser unit trays as specified operating refrigerant R410a including allowance for all piping and control and power cable kit, drain and proprietary Bluechem or equal corrosion treatment for condenser coils and condenser casings and replacement of all fasteners st/st fasteners and nylon washers				
	SERVER ROOM Mid Wall (stand alone)				
1	5 kW nominal cooling capacity for server room c/w wired remote control. (Indoor Unit)	each	1		
2	5 kW nominal cooling condenser unit for Nico's office. Extra over for Bluchem condenser coil treatment, clear casing treatment and stainless steel screws and nylon washers	each	1		
	COMPUTER LAB Round Flow Cassete Units				
3	15 kW nominal cooling capacity for for the board room c/w single wired remote control and grouped control.	each	2		
4	15 kW nominal cooling MULTI-APPLICATION condenser unit for computer room. Extra over for Bluchem condenser coil treatment, clear casing treatment and stainless steel screws and nylon washers	each	2		
5	Standard white decoration panel with grey insulation for the new cassette units.	each	1		
	CONTROLS				
6	Wired remote controller	each	1		
	Refrigerant For additional refrigerant over and above the supplied -----				
7	R 410 A	kg	11		
	Supply, delivery to site and installation of refrigeration grade copper pipework bundles to specification				
	STEELWORK Hot dip galvanised steelwork for brackets, condenser unit frames etc.				
8		kg	5		
	TOTAL CARRIED FORWARD				

BILL NO .6: AIR CONDITIONING APPLIANCES (CONT.)

Item No	Description	Unit	Qty	Rate	Total Amount
TOTAL BROUGHT FORWARD					R -
	REFRIGERATION PIPE-WORK				
	Supply, delivery to site and installation of refrigeration grade copper pipework bundles to specification including cutting, reaming and soldering (Plain ends), closed cell pipe insulation, control and power cabling and heavy duty galvanised 100mm wide cable tray.				
	9,5 Liquid x 19,1 Gas MEDIUM DUTY WELDED MESH GALVANISED CABLE TRAY	metres	20		
	50 x 50 pitch for fixing of pipe bundles (including clip on supports and 10mm hanging rods x 1,5 m long)				
	<u>Straight Lengths</u>				
9	100 mm wide	metres	60		
	<u>Cut Fittings</u>				
	Labour only cost - cable tray length measured elsewhere				
10	Cut side of cable basket for take off or for making tee connection	each	4		
	Drain Pipe Work				
	Supply, delivery to site and installation of CL 9 UPVC pipework and fittings including cutting, reaming and solvent welding (plain ends) and supports				
11	25 dia	metres	30		
12	25 dia 90 or 45 deg bend	each	8		
13	25 dia tee	each	0		
14	25 dia hose end coupling	each	10		
	Threaded Rods				
15	8 mm galvanised threaded rod	metres	40		
	PIPE SUPPORTS				
	Pipe Clips				
16	Galvanised pipe clips c/w rubber clip insert 25 -40 dia	each	10		
TOTAL CARRIED TO SUMMARY					

Tandanani SSS

BILL NO. 6: DUCTWORK

Item No	Description	Unit	Qty	Rate	Total Amount
	DUCTWORK AND FITTINGS UNINSULATED Including supports and flanges				
	<u>Circular Ductwork Unsulated</u>				
1	150 dia	metres	18		
	<u>Rectangular Ductwork</u>				
2	100 x 150	metres	2		
3	150 x 150	metres	2		
4	200 x 200	metres	3		
	<u>Duct transformations, spigots, duct take-offs and duct ends</u>				
5	Extra over 200 x 200 duct for 150 x 150 to 150 transformation	each	1		
6	Extra over 150 x 200 duct for 150 x 100 to 100 transformation	each	1		
7	Extra over 200 dia duct for 200 dia to 150 dia reducer	each	2		
8	150 dia spigot cut in duct side for connection of flexible duct	each	5		
9	Extra over 100 x 150 duct end	each	1		
	<u>Flexible Ducting</u>				
10	150 dia	metres	8		
	<u>PAINTING OF EXPOSED DUCTWORK</u>				
11	Painting of exposed ductwork off site including degreasing, preparation, primer coat and two top coats and touching up if required	m2	10		
	<u>SOUND ATTENUATING FLEXIBLE DUCTWORK</u> Insulated flexible duct aluminium served internally and externally				
12	150 dia	metre	10		
	<u>MIXED FLOW FANS SUPPLY AIR</u> Sound attenuated mixed flow c/w flexible connectors single phase				
	<u>S&P TD Silent Range</u>				
13	150 dia c/w flexible connectors	each	1		
TOTAL CARRIED FORWARD					

Tandanani SSS
BILL NO. 6: DUCTWORK

Item No	Description	Unit	Qty	Rate	Total Amount
TOTAL BROUGHT FORWARD					
	CEILING FAN				
14	Ceiling Mounted Fan, white with 3 blades c/w wall controller. 1200, 230-240V, 50HZ, 70W @ 194m3/min	each	2		
	WEATHER LOUVERS & AIR VALVES (anodised aluminium weather resitant unless otherwised specified powder coated to suit)				
15	200 x 200	each	1		
16	Supply air valves 150 dia	each	5		
	<u>MISCELLANEOUS ITEMS</u>				
17	Provision of Shop Drawings and Builder's Work Drawings for approval	sum	1		
18	Submit equipment detailed schedules for approval	sum	1		
TOTAL CARRIED FORWARD					

Tandanani SSS

BILL NO.6: TESTING, COMMISSIONING AND DOCUMENTATION

Item No	Description	Unit	Qty	Rate	Total Amount
	TESTING AND COMMISSIONING				
1	Commissioning of unitary air conditioning and heat pump by approved agent	each	1		
2	Commissioning and balancing of ventilation and fresh air systems	each	1		
	DOCUMENTATION				
	<u>Provide "As Built drawings" :</u>				
3	Hard Copy :	sets	3		
4	Electronic Copy :	sets	3		
	<u>Provide Maintenance and Operating Manuals:</u>				
5	Hard Copy :	sets	3		
6	Electronic Copy :	sets	3		
	TRAINING				
7	Training of staff in the operation and maintenance of all air conditioning and ventilation equipment	hours	1		
8	Comprehensivemaintenanceduringthe12-monthorextended guarantee period as per detailed	sum	1		
	TOTAL BILL NO. 4 CARRIED TO SUMMARY				

BILL NO. 6: ITEMS SPECIFIED BY THE SUB CONTRACTOR

TOTAL CARRIED FORWARD

Tandanani SSS SUMMARY

[illegible]

TANDANANI SSS

PRICE SUMMARY

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>TOTAL AMOUNT</u>
Bill No. 1	Hot water Generating systems	R -
Bill No. 2	LP Gas Installation	R -
Bill No. 3	Fume Cabinet Installations	R -
Bill No. 4	Kitchen Equipment Installations	R -
Bill No. 5	Kitchen Extractor Hood Installations	R -
Bill No. 6	AC & Ventilation	R -
Bill No. 7		
Bill No. 8		
Subtotal		R -
Contingencies		R -
Subtotal		R -
VAT (15%)		R -
TOTAL ESTIMATE PRICE (INCLUDING VAT)		R -

NAME OF FIRM:

TENDERER'S SIGNATURE

NAME IN PRINT

ADDRESS

.....

.....

DATE

TEL. NO.

FAX NO.

SECTION NO. 6
EXTERNAL WORKS

	Unit	Quantity	Rate	TANDANANI SSS Amount
<u>SECTION NO. 6</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 1</u> <u>EARTHWORKS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>General:</u> Refer to previous sections for Supplementary Preambles also applicable to this section. <u>DEMOLITIONS</u> <u>Nature and extent:</u> Descriptions of demolitions give a rough guide only as to the scope of the work. Tenderers are therefore advised to visit the site before submitting a tender and to acquaint themselves with the nature and extent of the work to be done and the value of the recoverable materials which are not to be re-used or handed over to the Employer. Unless otherwise stated, loose furniture, kitchen and other equipment, apparatus, machinery, etc, shall remain the property of the Employer and the removal thereof does not fall within the scope of this Contract. The Contractor shall completely demolish the buildings, etc in a careful, skillful, practical and and safe manner. Demolitions shall include breaking up and removing: -all floors and surface beds; - all foundation brickwork and strip footings including filling in holes where necessary and ramming and levelling to ground level; - all external screen walls, steps, ramps, gulleys, etc attached to the buildings to be demolished; - all toilets, basins, urinals, etc, and all services, manholes, etc in the ground to a point not less than 1m beyond the perimeter of the building including plugging off ends of all remaining pipes, drains, etc, filling in holes where necessary and ramming and levelling to ground level. Removal of posts,etc with concrete bases shall include filling in holes with selected material from the excavations and compacting to a minimum 93% Mod AASHTO density. <u>Explosives:</u> No explosives whatsoever may be used for demolition purposes unless otherwise stated. Carried to Collection				
			R	

	Unit	Quantity	Rate	TANDANANI SSS Amount
<u>Notices, etc:</u> The Contractor shall, before commencing demolition work, obtain all necessary authorisation for carrying out the work, by whatever means including the use of pneumatic equipment or blasting, give all necessary notices and pay all charges and fees in connection therewith. The Contractor shall also comply with all regulations pertaining to rodent extermination, handling of asbestos/fibre cement and other dangerous products, etc and pay all necessary fees. All receipts and required certificates shall be handed to the Principal Agent and the Contractor shall pay all relevant charges and fees, which shall be deemed to be included in his prices. The Contractor shall give ample notice to the Principal Agent and School authorities regarding any disconnections necessary prior to the removal or interruption of electrical or telephone cables, water and sanitary services, etc <u>Removal or demolition of existing work comprising or containing asbestos products:</u> Where existing works comprising or containing asbestos products are removed or demolished, the Contractor shall ensure that such work is conducted in accordance with the provisions of the Asbestos Regulations promulgated by Government Notice No. R 155 of 10 February 2002, as amended, as provided for in clause 12 (9) of the Construction Regulations. Such works shall be carried out by a company registered with the Department of Labour as an Asbestos Contractor. Prior to the commencement of such works, a plan of work approved by an approved Asbestos Inspection Authority shall be submitted to the Provincial Director/ Provincial Executive Manager. <u>Materials from the demolitions, credit, etc:</u> Materials recovered from the demolitions will become the property of the Contractor, who may allow credit in respect thereof where provided for in the bills of quantities. Such materials shall not be re-used in any new work without written permission from the Principal Agent. <u>Disposal of debris:</u> The Contractor shall be responsible for the removal from the site of all materials, rubble, debris and rubbish resulting from the demolitions.				
Carried to Collection			R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>DEMOLITIONS, ETC</u>					
<u>Taking down and removing:</u>					
1	Stock or wire mesh fencing 1,2m high, including posts with bases, gates, etc.	m	56		
2	Stock or wire mesh fencing 1,8m high, including posts with bases, gates, etc.	m	125		
<u>Breaking up and removing:</u>					
3	Unreinforced concrete paving 100mm thick in pathways, ramps, etc.	m ²	2		
<u>Taking up and removing:</u>					
4	Water or drain pipes not exceeding 150mm diameter, including excavation not exceeding 1m deep, backfilling and compacting to 93% Mod AASHTO density, cutting into and blanking off remaining end of pipes, etc.	m	25		
<u>After completion of the new school, demolish and remove buildings comprising unreinforced concrete surface bed, brick external and internal walls, corrugated iron roofing on timber trusses, timber doors in steel frames, glazed windows, etc and including foundation brickwork and reinforced concrete strip footings:</u>					
5	Single storey 4 x classroom mud structure with double pitch roof 35,60m long x 9,40m wide on plan and 2,0m high at eaves.	No	1		
6	Single storey kitchen mud structure with double pitch roof 4,0m long x 4,00m wide on plan and 2,0m high at eaves.	No	1		
<u>Demolish and remove single storey buildings comprising unreinforced concrete surface bed, corrugated iron clad walls, corrugated iron roof covering on timber trusses, timber doors, etc:</u>					
7	Single storey zinc / timber shack with pitched roof 4,81m x 2,96m wide on plan.	No	1		
<u>SITE CLEARANCE, ETC.</u>					
<u>Site clearance, etc.:</u>					
8	Allow for clearing the site of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, concrete surface water channels, debris, etc., including grubbing up all roots, scoffling up as required and carting away.	m ²	9 128		
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
9	Stripping topsoil to an average depth of 150mm and stockpile on site.	m ²	2 738		
	<u>REMOVAL OF TREES, ETC</u>				
	<u>Cutting down and removing, grubbing up roots and filling in holes:</u>				
10	Tree exceeding 200mm and not exceeding 500mm girth.	No	1		
	<u>BULK EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in earth not exceeding 2m deep and dispose in prescribed stockpiles on site including haulage not exceeding 500m from perimeter of excavations:</u>				
11	Open face excavation over sloping site to form platforms under buildings, parking areas, etc.	m ³	12 758		
	<u>Extra over bulk excavations in earth for excavations in:</u>				
12	Soft rock.	m ³	1 276		
13	Hard rock.	m ³	638		
	<u>Extra over all excavations for carting away (no allowance made for increase in bulk):</u>				
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m ³	7 162		
	<u>Keeping excavations free of water:</u>				
15	Keeping excavations free of water other than subterranean water.	Item			
	<u>Earth filling obtained from excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density:</u>				
16	Over site to form platforms.	m ³	5 103		
	<u>Earth filling of G8 subbase material supplied by the Contractor, compacted to 95% Mod AASHTO density.</u>				
17	Over site to form platforms.	m ³	543		
	<u>Earth filling of G7 subbase material supplied by the Contractor, compacted to 90% Mod AASHTO density.</u>				
18	Over site to form platform.	m ³	1 725		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Compaction of Surfaces:</u>					
19	Compaction of natural or excavated ground surfaces under platforms for buildings, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting of 93% Mod AASHTO density.	m ²	9 128		
<u>Prescribed Tests:</u>					
20	Mod AASTO density tests.	No	60		
21	Natural California Bearing Ratio test.	No	15		
<u>TEMPORARY BARRIERS, SCREENS, FENCING, ETC</u>					
<u>External temporary barriers, screens, etc, including maintenance, removal, etc:</u>					
22	1800mm High fence formed of 63/2.5mm galvanised diamond mesh fencing fixed to 100mm diameter timber posts at 3m centres, including suitable straining posts, straining wires, concrete (15MPa/19mm) bases, excavation, backfilling, carting away excavated material, etc.	m	160		
23	Extra over last for green UV stabilised high density polyethylene shade cloth (80%) securely fixed to fence, including additional straining wires, etc.	m ²	384		
24	Extra over last for lockable pedestrian access gate.	No	1		
25	Extra over last for lockable vehicle access gate.	No	1		
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	Unit	Quantity	Rate	TANDANANI SSS Amount
<u>SECTION NO. 6</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 2</u> <u>PLUMBING AND DRAINAGE</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Materials and workmanship:</u> Malleable cast iron pipe fittings shall comply with SANS 14. Steel plate flanges for welding shall comply with SANS 1123, nominal working pressure of 1600kPA, drilled to Table 10. Butt weld fittings shall comply with ANSI B16 and BS 1640. Brass gate valves shall comply with SANS 776. Fire hydrant valves shall comply with SANS 1128 Part 1. Hot dip galvanising of mild steel units shall comply with SANS 121 (minimum zinc coating of 0,105mm) <u>uPVC pipes and fittings:</u> Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings. Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings. <u>uPVC pressure pipes and fittings:</u> Pipes for water supply shall be of the class stated. Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings. Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints. <u>High density polyethylene (HDPE) pipes and fittings</u> Pipes shall be of type and class as specified with compression fittings.				
Carried to Collection			R	

	Unit	Quantity	Rate	Amount
<u>Copper pipes:</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground. <u>Corrosion protection to steel pipes:</u> Corrosion protection to steel pipes shall be in accordance with the manufacturer's recommendations consisting internally and externally of two coats 'Cupon EP2300', each coat not less than 0,1mm and not more than 0,125mm thick. <u>Reducing fittings:</u> Where fittings have reducing ends or branches they are described as 'reducing' and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. <u>Valves, etc:</u> Cast iron, ductile iron or SG iron valves, check valves, strainers, etc shall comply with SANS 664 and shall be epoxy coated. Brass gate valves shall comply with SANS 776. <u>Excavations:</u> No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. 'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'. <u>Laying, backfilling, bedding, etc of pipes:</u> Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled. Where no manufacturers' instructions exist, pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SANS 1200 L : Medium pressure pipelines SANS 1200 LD : Sewers SANS 1200 LE : Stormwater drainage				
	Carried to Collection		R	

	Unit	Quantity	Rate	TANDANANI SSS Amount
Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200LB: Bedding (Pipes) Unless otherwise described bedding of rigid and flexible pipes shall be Class B bedding. The selected granular material for the bedding cradle shall be imported by the contractor from a commercial or other source. Where described as under floors, paving or roads, the backfilling above the pipe bedding shall be selected earth filling from the excavations compacted in 150mm layers to 95% Mod AASHTO density. Minimum cover to pressure pipelines to be 800mm generally and 1000mm under roads. <u>Descriptions:</u> Descriptions of pipes laid in trenches, catchpits, inspection chambers, etc shall be deemed to include all necessary excavations, risk of collapse, keeping excavations free of water, trimming and ramming bottoms, bedding material, backfilling, compacting to 93% Mod AASHTO density unless otherwise described and carting away surplus excavated material to a dumping site to be located by the contractor. <u>Catchpits, inspection chambers, etc:</u> Concrete in bases, etc of catchpits, inspection chambers, etc shall be 20Mpa/19mm strength concrete. <u>Cable duct junction boxes, manholes, etc:</u> Junction boxes shall be built with brick-on-flat sides on 50mm unreinforced concrete bottom projecting 100mm beyond walls all around and with 300mm thick reinforced concrete cover slab with opening rebated for frame of cover. Manholes shall be built with one brick sides on 100mm unreinforced concrete bottom projecting 100mm beyond walls all around, plastered internally on walls and with 300mm thick reinforced concrete cover slab with opening rebated for frame of cover. <u>As-built drawings:</u> Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto originals for handing over to the employer (provision for allowance of as-built drawings elsewhere).				
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>STORMWATER DRAINAGE</u>					
<u>Class 34 uPVC socketed pipes:</u>					
1	315mm Pipes laid in and including trenches not exceeding 1m deep.	m	88		
<u>Catchpits, inspection chambers, etc including concrete kerbs or precast concrete cover slabs (gratings and covers elsewhere):</u>					
2	1040 x 1040mm Brick catchpit not exceeding 1m deep internally.	No	3		
3	1000mm Diameter precast concrete circular inspection chamber not exceeding 1m deep internally.	No	1		
<u>Gratings, covers, etc:</u>					
4	450 x 450mm x 27.4kg Light duty polymer concrete dished grating and frame.	No	1		
5	450 x 450mm x 59kg Medium duty polymer concrete gully grid and frame.	No	1		
6	600mm Diameter type 4A medium duty polymer concrete manhole cover and frame.	No	1		
7	Extra over last for 3CR12 steel lock and solid key or equal and approved.	No	2		
<u>Testing:</u>					
8	Testing stormwater pipe system.	Item			
<u>SOIL DRAINAGE</u>					
<u>Class 4 uPVC socketed pipes:</u>					
9	63mm Pipes laid in and including trenches not exceeding 1m deep.	m	186		
10	63mm Pipes laid in and including trenches not exceeding 1m deep under floors or paving.	m	78		
11	63mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep.	m	50		
<u>Extra over Class 4 uPVC socketed pipes for fittings:</u>					
12	63mm Adaptor coupling to 110mm uPVC pipe.	No	20		
13	63mm Bend.	No	35		
14	63mm Junction / tee.	No	8		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Heavy duty (class 34) uPVC sewer and drain pipes:</u>					
15	110mm Pipes vertically or ramped to cleaning eyes, etc (no excavation).	m	10		
16	110mm Pipes laid in and including trenches not exceeding 1m deep.	m	10		
<u>Extra over heavy duty (class 34) uPVC sewer and drain pipes for fittings:</u>					
17	110mm Bend.	No	10		
18	110mm Rodding eye.	No	10		
<u>uPVC dished gulleys:</u>					
19	110mm Gully exceeding 500mm and not exceeding 750mm deep.	No	9		
<u>Grease Trap:</u>					
20	Grease trap chamber size 1800 x 1800mm wide overall on plan with half brick perimeter walls 1100mm high, built on and including 100mm thick concrete surface bed including all excavations, carting away surplus excavated materials, etc complete as per grease trap detail drawing annexed to these bills of quantities for tender purposes (stainless steel grease trap elsewhere).	No	1		
21	'Grease Traps GTS 2L' or equal and approved stainless steel grease trap size 1100 x 800 x 1000mm deep with removable solid basket and including complete installation in grease trap chamber (elsewhere), connecting up pipework, etc complete as per grease trap detail drawing annexed to these bills of quantities for tender purposes.	No	1		
<u>Sundries:</u>					
22	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock.	m ³	219		
23	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock.	m ³	73		
24	Unreinforced concrete (15MPa/19mm) encasing to ramped or vertical pipe not exceeding 110mm diameter.	m	10		
<u>French drain:</u>					
25	Excavation in earth not exceeding 2m deep for french drain.	m ³	27		
26	Extra over all excavations for loading, carting away and dumping surplus excavated material at a site to be located by the contractor.	m ³	22		
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
27	Risk of collapse to sides of trench excavations not exceeding 1,5m deep.	m ²	90		
28	Earth filling to french drain comprising selected fill from excavations.	m ³	5		
29	Washed stone filling of 40 to 80mm diameter stones in french drain.	m ³	22		
30	A4 Geotextile filter fabric blanket with 300mm laps in lining to french drain.	m ²	129		
31	110mm Slotted uPVC (Class 34) drainage pipe with 6mm diameter holes, laid in stone filling.	m	44		
32	Extra over 110mm uPVC pipe for end cap.	No	6		
33	Extra over 110mm uPVC pipe for junction.	No	4		
	<u>Testing:</u>				
34	Testing drainage pipe system.	Item			
	<u>DUCTS, ETC FOR ELECTRICAL AND TELEPHONE CABLES, WATER PIPES, ETC</u>				
	<u>Class 4 uPVC socketed pipes with and including 2,5mm galvanised draw wires with 2m neatly coiled ends, including plugging ends of pipes to prevent ingress of dirt:</u>				
35	50mm Pipes laid in and including trenches not exceeding 1m deep under floors, paving or roads.	m	40		
36	110mm Pipes laid in and including trenches not exceeding 1m deep under floors, paving or roads.	m	101		
37	Set of two 110mm pipes laid in and including trenches not exceeding 1m deep under floors, paving or roads.	m	202		
38	Set of three 110mm pipes laid in and including trenches not exceeding 1m deep under floors, paving or roads.	m	22		
	<u>Extra over class 4 uPVC pipes for fittings:</u>				
39	50mm Bend.	No	10		
40	110mm Bend.	No	5		
41	50mm Long radius bend.	No	10		
42	110mm Long radius bend.	No	15		
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Class 6 uPVC socketed pipes, including plugging ends of pipes to prevent ingress of dirt:</u>					
43	250mm Pipes laid in and including trenches not exceeding 1m deep under floors, paving or roads.	m	56		
<u>Inspection chambers, covers, etc:</u>					
44	660 x 660mm Brick inspection chamber 600mm deep internally with one brick sides of second grade utility face bricks (12MPa) in Class 1 mortar pointed with flush joints, on 120mm thick unreinforced concrete (20MPa/19mm) bottom projecting 100mm beyond walls all round, two 25mm diameter uPVC drain pipes in bottom and 100mm thick reinforced concrete cover slab with opening for frame of cover (cover and frame elsewhere) and plastered on exposed surfaces.	No	19		
45	650mm Diameter x 204kg type 1A heavy duty cast iron manhole cover and frame filled in with and including 20MPa/19mm concrete finished smooth on all exposed faces.	No	19		
<u>WATER SUPPLIES</u>					
<u>PE 100 PN 12.5 HDPE pressure pipes with approved compression fittings:</u>					
46	25mm Pipes laid in and including trenches not exceeding 1m deep.	m	50		
<u>Extra over PE 100 PN 12.5 HDPE pressure pipes for PN16 compression fittings:</u>					
47	25mm Adaptor coupling.	No	30		
48	25mm Bend.	No	10		
49	63 x 25mm Saddle with and including coupling to 25mm HDPE pipe.	No	10		
<u>Class 12 uPVC socketed pressure pipes:</u>					
50	50mm Pipes laid in and including trenches not exceeding 1m deep.	m	255		
51	50mm Pipes laid in and including trenches not exceeding 1m deep under floors or paving.	m	43		
<u>Extra over class 12 uPVC socketed pressure pipes for class 16 uPVC pressure fittings:</u>					
52	50mm End cap.	No	7		
53	63 x 50mm Adaptor coupling.	No	1		
54	63 x 100mm Adaptor coupling.	No	1		
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
55	50mm Bend.	No	12		
56	50mm Tee.	No	18		
	<u>Galvanised steel pipes with screwed and socketed joints:</u>				
57	50mm Pipes.	m	34		
58	100mm Pipes.	m	12		
	<u>Extra over galvanised steel pipes with screwed and socketed joints for steel fittings:</u>				
59	50mm Bend.	No	8		
60	50mm BSP adaptor.	No	4		
61	100mm Bend.	No	2		
62	100mm Tee.	No	1		
63	50mm Flanged coupling.	No	4		
64	100mm Flanged coupling.	No	4		
	<u>TAPS, VALVES, ETC</u>				
65	25mm 'Cobra' 121-25 brass stoptap or similar approved.	No	10		
66	50mm Brass heavy duty fullway gate valve.	No	1		
67	100mm Brass heavy duty fullway gate valve.	No	1		
	<u>SUNDRIES:</u>				
68	Taking down 500l LLDPE water tank 840mm diameter x 1080mm high from stand 1,3m high and handing over to employer, including removing wire ties, short lengths of pipe, etc.	No	1		
69	Taking down 5000l LLDPE water tank 1800mm diameter x 2100mm high from stand average 0,5m high and handing over to employer, including removing wire ties, short lengths of pipe, etc.	No	5		
70	Unreinforced concrete (15MPa/19mm) in thrust blocks at bends, tees, valves, etc including necessary excavation, formwork, etc.	m ³	3		
71	405 x 320mm Type 5A medium duty polymer concrete hydrant box with and including brick chamber below not exceeding 750mm deep internally.	No	10		
72	'Klorman' inline chlorinator including cartridge, installed complete with all fittings, etc, or equal and approved.	No	2		
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TANDANANI SSS					
		Unit	Quantity	Rate	Amount
<u>Polyethylene water storage tank:</u>					
73	5000 Litre tank, 1800mm diameter x 2040mm high complete with 480mm diameter lid and 40mm inlet, overflow and outlet fittings, the outlet fitted with 40mm shut-off valve and hoist and place on plinth (plinth elsewhere) approximately 200mm above the ground.	No	21		
<u>Drinking fountains:</u>					
74	300mm Diameter drinking fountain with a standard Star pillar tap as per drinking fountain detail annexed to these bills of quantities.	No	2		
75	Single face brick drinking fountain 380 x 380 x 755mm high above ground level with precast concrete coping, metering pillar tap, foundation, etc as per drinking fountain detail annexed to these bills of quantities.	No	1		
76	Double face brick drinking fountain 1410 x 380 x 585mm high above ground level with precast concrete copings, metering pillar taps, foundation, etc as per drinking fountain detail annexed to these bills of quantities.	No	1		
77	Double face brick drinking fountain 1410 x 380 x 755mm high above ground level with precast concrete copings, metering pillar taps, foundation, etc as per drinking fountain detail annexed to these bills of quantities.	No	1		
78	Triple face brick drinking fountain 2440 x 380 x 755mm high above ground level with precast concrete copings, metering pillar taps, foundation, etc as per drinking fountain detail annexed to these bills of quantities.	No	2		
<u>Disinfecting:</u>					
79	Disinfecting water pipe and tank system.	Item			
<u>Testing:</u>					
80	Testing water pipe system.	Item			
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		TANDANANI SSS Amount
<u>BILL NO. 2</u>		
<u>PLUMBING AND DRAINAGE</u>		
<u>COLLECTION</u>		
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	Unit	Quantity	Rate	TANDANANI SSS Amount
<u>SECTION NO. 6</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 3</u> <u>EXTERNAL WORKS</u> <u>SUPPLEMENTARY PREABLES</u> <u>General:</u> Reference must be made to Trades in previous sections for Supplementary Preambles applicable to this section. <u>Drainage sand:</u> The sand shall be clean, hard sand obtained from approved borrow pits. The sand shall comply with the requirements of SABS 1083, Table 1: Sand for concrete, and shall be medium grade. The nominal maximum particle size for medium grade sand shall be 2,00mm. <u>Topsoil:</u> Topsoil shall vary between sandy loamy soil and sandy clayey soil with an ideal composition of 15% to 25% clay, 10% silt/sludge and 65% to 75% sand, with a minimum ratio of organic material of 2%. All material shall be free of harmful deposits as well as unwanted seeds. <u>Testing of material and filling:</u> Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with SANS 1200 series. <u>Stone pitching:</u> Stone pitching shall be in accordance with SANS 1200 DK, unless otherwise noted. Starting at the toe, pitching shall be placed by firmly embedding each stone into the underlying material and against adjoining stones. Each stone shall be placed with the largest dimension at right angles to the slope and with its surfaces in close contact with stones already placed.				
Carried to Collection			R	

	Unit	Quantity	Rate	TANDANANI SSS Amount
The surfaces of stones to be concreted shall be cleaned of adhering dirt, soil, etc and shall be moistened with clean water before the concrete is applied. The concrete to set the stones in shall have a minimum strength of 20MPa. The concrete shall be worked into the voids by spading, rodding and trowelling. The minimum depth of penetration of the concrete below the top of the pitching surface shall be 190mm and 150mm for medium and light pitching respectively. The completed surface shall be cured for at least four days with an approved compound or other approved means. No workman or any other load shall be allowed on the completed surface within forty eight hours after the concrete has been placed in the voids. <u>Concrete block paving:</u> Block paving to be manufactured in accordance with SANS Specification 1058. Paving to be laid in accordance with SANS 1200MJ, SANS 1058 and the Concrete Manufacturers Association's Specification. Clean dry jointing sand complying with SANS 1200MJ is to be swept into joints between paving units. Paving to be installed with a minimum longitudinal fall of 1% and a transverse fall of at least 2%. All block paving shall be inspected and re-sanded after three months. <u>Roadworks:</u> All work is to be executed in accordance with the latest editions of the relevant SANS 1200 Specification. Cold premix shall be 'Roadmix' or other approved hot-mixed asphalt premix, prepacked and used as cold premix and shall comply with the standard specification for hot-mixed premix, stone/sand grading and type of bitumen binders as specified in 'Standard Specifications for Road and Bridge Works for State Road Authorities (COLTO - 1998)'. Rates for all road markings are to include for all necessary setting out and premarking: All 'Measurement and Payment' clauses in the SANS 1200 Specification shall be deemed to be deleted. <u>Fencing:</u> Hot-dip galvanising shall comply with SANS 121 and ISO 1461:2000.				
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
Descriptions of all posts with concrete bases shall be deemed to include excavations, risk of collapse, keeping excavations free of water, trimming and ramming bottoms, formwork, backfilling, compacting to 93% Mod AASHTO density and carting away surplus excavated material to a dumping site to be located by the contractor. No claim for rock excavation shall be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. <u>DECANTING AREA WALKWAYS AND PARKING</u> <u>Excavation in earth not exceeding 2m deep:</u> 1 Reduced levels under walkways. m³ 38 2 Reduced levels under parking areas. m³ 23 <u>Extra over excavation in earth for reduced levels for excavation in:</u> 3 Soft rock. m³ 6 4 Hard rock. m³ 3 <u>Extra over all excvataions for carting away:</u> 5 Surplus material from excavations and/or stockpiles on site to a dumping site to be located by the contractor. m³ 61 <u>Earth filling supplied by the Contractor under parking areas, walkways, etc:</u> 6 G5 Material in accordance with SANS 1200 MF compacted to 95% Mod AASHTO density under walkways, etc. m² 38 7 Gravel layer of 19mm crushed stone (not compacted) to parking areas, etc. m³ 16 <u>Compaction of surfaces:</u> 8 Compaction of ground surface under paving to walkways, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density. m² 250 9 Compaction of ground surface under gravelled parking area, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density. m² 156 Carried to Collection					
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				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>60mm Standard grey interlocking concrete (25MPa) paving blocks on and including 25mm thick river sand bed with dry filler sand swept and vibrated into joints, all laid on gravel base (base elsewhere) conforming to SANS 1200MF degree of accuracy 1:</u>					
10	Paving to walkways to falls with and including header course band along edges.	m ²	250		
<u>Taking up concrete block paving and set aside for re-use in same or new position (re-use elsewhere measured)</u>					
11	60mm Interlocking concrete block pavers to parking areas and walkways.	m ²	250		
<u>TOPSOIL</u>					
<u>Selected topsoil obtained from prescribed stock piles on site, including spreading and levelling:</u>					
12	Over site between buildings, walkways, etc.	m ³	681		
<u>INTERLOCKING BLOCK RETAINING WALLS</u>					
<u>Open face excavation in earth:</u>					
13	To embankment behind retaining walls including trimming to slope.	m ³	114		
<u>Extra over all excavations for carting away:</u>					
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	66		
<u>Filling of clean course river sand supplied by the contractor:</u>					
15	Behind retaining walls.	m ³	68		
<u>"Terraforce" L13 precast concrete interlocking blocks finished smooth on exposed surfaces:</u>					
16	Retainig wall with stepped face and curves as required comprising one row of 340 x 425 x 225mm high interlocking blocks per course laid with horizontal bed joints and 10MPa/19mm concrete keys to suit slopes including filling units with selected earth obtained from the excavations and/or stock piles on site, compacted to 90% Mod AASHTO density as the work proceeds.	m ²	228		
17	Extra over last for 850mm wide x 250mm thick 15Ma/19mm unreinforced concrete strip footing cast against excavated surfaces including excavation, risk of collapse, keeping excavations free from water, backfilling and carting away surplus excavated material.	m	188		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
18	Ditto, but for filling top row of blocks with 15MPa/19mm unreinforced concrete.	m	188		
19	Ditto, but for 75mm diameter uPVC weep pipe 500mm long, including fair cutting for and fitting pipe through precast concrete block.	No	84		
	<u>Subsoil drainage:</u>				
20	"Kaytech Flo-drain" system not exceeding 1000mm high with 110mm diameter geopipe behind retaining wall.	m	188		
21	Extra for end of "Kaytech Flo-drain" wrapped in grade A2 (U14) geotextile filter fabric and stapled.	No	21		
22	Extra for 110mm end cap.	No	26		
23	Extra for 110mm bend.	No	11		
	<u>BRICK RETAINING WALLS</u>				
	<u>Excavations in earth not exceeding 2m deep:</u>				
24	Trenches.	m ³	25		
	<u>Extra over excavations in earth for excavation in:</u>				
25	Soft rock.	m ³	5		
26	Hard rock.	m ³	2		
	<u>Extra over all excavations for carting away:</u>				
27	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	11		
	<u>Risk of collapse of excavations:</u>				
28	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	71		
	<u>Keeping excavations free of water:</u>				
29	Keeping excavations free of water other than subterranean water.	Item			
	<u>Filling with selected earth filling obtained from the excavations compacted to 95% Mod AASHTO density:</u>				
30	Backfilling to trenches, holes, etc.	m ³	13		
	<u>20MPa/19mm Unreinforced concrete cast against excavated surfaces:</u>				
31	Strip footings.	m ³	5		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
	<u>Brickwork of NFX solid clay bricks in class II mortar:</u>				
32	One brick wall.	m ²	44		
	<u>2.5mm Galvanised brick reinforcement:</u>				
33	150mm Wide reinforcement built in horizontally.	m	266		
	<u>Face bricks (PC R9 000.00 per 1000 supplied and delivered to site) pointed with recessed horizontal and vertical joints:</u>				
34	Extra over brickwork for face brickwork.	m ²	54		
35	220mm Face brick-on-edge coping on top of one brick walls, pointed on top and both sides.	m	30		
36	Fair cutting and fitting around pipe not exceeding 100mm external diameter.	No	10		
	<u>Joint forming material in movement joints:</u>				
37	10mm Closed cell expanded polyethylene built in vertically through brick walls.	m ²	1		
	<u>Polyurethane sealing compound including bond breaker, primer, etc:</u>				
38	10 x 10mm In expansion joints in walls, including raking out expansion joint filler as necessary.	m	5		
	<u>uPVC pipes:</u>				
39	75mm Pipe 300mm long built in through brick wall.	No	10		
	<u>BALUSTRADING ON RETAINING WALLS, ETC</u>				
	<u>"Macklock' or similar approved galvanised mild steel balustrading of 34mm diameter x 2,5mm thick hand-and intermediate rails and 43mm diameter x 2,5mm thick ball type stanchions at not exceeding 1m centres with 150 x 60 x 10mm thick flat section base plate holed for and twice bolted to concrete (bolts elsewhere):</u>				
40	Horizontal balustrading 1000mm high.	m	259		
41	Raking balustrading 1000mm high.	m	36		
42	Extra for 90° short radius bend.	No	22		
43	Extra for 500mm 90° straight closure.	No	29		
44	Extra for 500mm 30° to 45° angle closure.	No	22		
45	16mm Diameter galvanised steel chemical anchor.	No	420		
	Carried to Collection			R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>STORMWATER CHANNELS, BERMSETC</u>					
<u>Excavation in earth not exceeding 2m deep:</u>					
46	Excavation in earth not exceeding 2m deep for reduced levels under concrete aprons, channels, stone pitching, etc.	m ³	298		
<u>Extra over all excavations for carting away:</u>					
47	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	244		
<u>Compaction of surfaces:</u>					
48	Compaction of ground surface under channels, stone pitching, etc. including scarifying for a depth of 100mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density.	m ²	1 336		
<u>Filling obtained from the excavations and/or prescribed stock piles on site:</u>					
49	Earth filling in berms comprising selected filling from the excavations.	m ³	36		
<u>Filling supplied by the Contractor under stormwater channels:</u>					
50	G7 material in accordance with SABS 1200ME compacted to 95% Mod AASHTO density.	m ³	176		
<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing:</u>					
51	900mm Wide stormwater channel formed of two 450 x 125/90mm tapered channels (SANS 927 fig 14) bedded on 900mm wide x 100mm thick 10MPa/19mm unreinforced concrete base with 85 x 85mm continuous unreinforced concrete haunching along both edges, including excavation, backfilling, angles, intersections, ends, etc.	m	1 002		
52	Extra for forming 150mm thick channel spreader formed of square shape 2000mm width x 500mm long and triangular shape of 2000mm wide x 1000mm long at with eight (8 No) of 150 x 150 x 150mm concrete blocks cast into in-situ concrete two rows including working off concrete to a smooth finish (energy dissipaters).	No	8		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Brick head wall, including in-situ concrete apron slabs, cut-off walls, etc as per head wall detail annexed to these bills of quantities:</u>					
53	Head wall for 250mm diameter inlet pipe including scarifying excavated ground below base for a depth of 150mm and compacting to 90% Mod AASHTO density, including necessary excavations, etc.	No	2		
<u>Stone pitching:</u>					
54	Medium stone pitching minimum 300mm thick of stones with minimum dimension of 150mm and minimum weight of 27kg.	m ²	49		
<u>PLINTHS FOR WATER TANKS</u>					
<u>Excavation in earth not exceeding 2m deep:</u>					
55	Holes.	m ³	57		
<u>Extra over all excavations for carting away:</u>					
56	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor.	m ³	57		
<u>Risk of collapse of excavations:</u>					
57	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	77		
<u>Keeping excavations free of water:</u>					
58	Keeping excavations free of water other than subterranean water.	Item			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density:</u>					
59	Backfilling to trenches, holes, etc.	m ³	8		
<u>Filling of G7 material in accordance with SANS 1200ME supplied by the Contractor, compacted to 95% Mod AASHTO density:</u>					
60	Under surface beds.	m ³	35		
<u>20MPa/19mm Unreinforced concrete cast against excavated surfaces:</u>					
61	Strip footings.	m ³	21		
<u>25MPa/19mm Reinforced concrete:</u>					
62	Surface beds.	m ³	10		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
	<u>Finishing top surface of concrete smooth with a wood float:</u>				
63	Surface beds.	m ²	61		
	<u>Rough formwork to sides:</u>				
64	Edges, risers, etc not exceeding 300mm high.	m	101		
	<u>Fabric reinforcement:</u>				
65	Type 311 fabric reinforcement in concrete slab.	m ²	78		
	<u>Brickwork of NFX solid clay bricks in class II mortar:</u>				
66	One brick walls.	m ²	65		
	<u>Face bricks (PC R9 000.00 per 1000 supplied and delivered to site) pointed with recessed horizontal and vertical joints:</u>				
67	Extra over brickwork for face brickwork.	m ²	56		
68	220mm Face brick-on-edge coping on top of one brick walls, pointed on top and one side.	m	128		
	<u>One layer 150 micron polyethylene waterproof sheeting (SANS 952-1985 Type C) with minimum 150mm overlaps sealed with pressure sensitive tape:</u>				
69	Under surface beds.	m ²	89		
	<u>PARKING AREAS, WALKWAYS, APRONS, RAMPS, ETC</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
70	Reduced levels under parking and quad areas.	m ³	770		
71	Reduced levels under walkways, ramps, etc.	m ³	486		
	<u>Extra over excavation in earth for reduced levels for excavation in:</u>				
72	Soft rock.	m ³	126		
73	Hard rock.	m ³	63		
	<u>Extra over all excavations for carting away:</u>				
74	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	1 256		
	<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site:</u>				
75	Under parking and quad areas, compacted to 93% Mod AASHTO density.	m ³	154		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
76	Under walkways, ramps, etc, compacted to 93% Mod AASHTO density.	m ³	48		
	<u>Earth filling supplied by the Contractor under parking areas, walkways, ramps, etc:</u>				
77	G7 Material in accordance with SANS 1200 ME compacted to 95% Mod AASHTO density under walkways, ramps, etc.	m ³	300		
78	G5 Material in accordance with SANS 1200 MF compacted to 95% Mod AASHTO density under parking and quad areas, etc.	m ³	300		
	<u>Compaction of surfaces:</u>				
79	Compaction of ground surface under paving to parking and quad areas including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m ²	1 547		
80	Compaction of ground surface under paving to walkways, ramps, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m ²	798		
	<u>Prescribed density tests on filling:</u>				
81	Modified AASHTO density test.	No	50		
	<u>25Mpa/19mm Reinforced concrete:</u>				
82	Walkways, parking, etc cast in not exceeding 4,5m ² panels.	m ³	127		
83	Ramps cast in not exceeding 4,5m ² panels.	m ³	6		
84	Steps and landings	m ³	6		
	<u>Test cubes:</u>				
85	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	No	15		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
86	Walkways, etc to falls.	m ²	740		
	<u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface:</u>				
87	Ramps and landings.	m ²	58		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
	<u>Rough formwork to sides:</u>				
88	Edges, risers, ends, etc not exceeding 300mm high.	m	267		
	<u>Smooth formwork to sides:</u>				
89	Edges exceeding 300mm high.	m ²	5		
90	Edges, risers, ends, etc not exceeding 300mm high.	m	993		
	<u>Expansion joints with closed cell expanded polypolyethylene between vertical concrete surfaces:</u>				
91	10mm Joints not exceeding 300mm high.	m	195		
	<u>Fabric reinforcement:</u>				
92	Type 193 fabric reinforcement in concrete walkways and ramps.	m ²	2 345		
93	Type 245 fabric reinforcement in concrete steps and landings.	m ²	58		
94	Type 311 fabric reinforcement in concrete parking.	m ²	525		
	<u>Polyurethane sealing compound including bond breaker, primer, etc:</u>				
95	10 x 10mm Expansion joints in walkways and ramps including raking out expansion joint filler as necessary.	m	216		
	<u>Bond concrete block paving of 200 x 100 x 50mm thick coloured bevel edge concrete (25MPa) paving blocks on and including 25mm thick river sand bed with dry filler sand swept and vibrated into joints, all laid on gravel base (base elsewhere) conforming to SANS 1200MF degree of accuracy 1:</u>				
96	Paving to quad areas to falls.	m ²	2		
	<u>50mm Thick Standard interlocking concrete (25MPa) paving blocks from stockpile (removal elsewhere) on and including 25mm thick river sand bed with dry filler sand swept and vibrated into joints, all laid on gravel base (base elsewhere) conforming to SANS 1200MF degree of accuracy 1:</u>				
97	Paving to assembly areas to falls.	m ²	777		
	<u>60mm Thick Standard interlocking concrete (25MPa) paving blocks on and including 25mm thick river sand bed with dry filler sand swept and vibrated into joints, all laid on gravel base (base elsewhere) conforming to SANS 1200MF degree of accuracy 1:</u>				
98	Paving to walkways areas to falls.	m ²	19		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
99	Fair circular cutting.	m	10		
	<u>Precast concrete kerbing in 1m lengths finished smooth on exposed faces, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 20MPa/19mm unreinforced concrete continuous bedding 480mm wide x 50mm thick, continuous haunching 150mm wide x average 150mm high along back and continuous haunching 150mm wide x average 60mm high along front, excavation, backfilling, ramming, etc:</u>				
100	Sunken kerb (Figure 2), 125 x 250mm high overall to parking area.	m	101		
101	Barrier kerb (Figure 4), 150 x 250mm high overall to parking area.	m	101		
102	Mountable kerb (Figure 7), 180 x 280mm high overall to parking area.	m	1		
103	Transition kerb (Figure 7), 180 x 280mm approximately 1000mm long including fair cutting.	No	1		
	<u>Untinted granolithic on concrete:</u>				
104	30mm Thick on treads and risers of stairs including reedings.	m ²	29		
	<u>Prepare surfaces and apply one coat non-reflective road marking paint at nominal rate of 0,42L/m2 on precast concrete paving blocks, etc:</u>				
105	100mm Wide solid white line.	m	75		
106	100mm Wide solid yellow line.	m	88		
107	Yellow disabled persons vehicle symbol 600 x 800mm wide extreme.	No	1		
	<u>ENTRANCE FEATURE WALLS, SEATING AREA</u>				
	<u>Excavations in earth not exceeding 2m deep:</u>				
108	Trenches.	m ³	6		
109	Reduced levels unde seating.	m ³	77		
	<u>Extra over all excavations for carting away:</u>				
110	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	81		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
	<u>Risk of collapse of excavations</u>				
111	Sides of trench and hole excavations not exceeding 1.5m deep.	m ²	76		
	<u>Filling with selected earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u>				
112	To trenches, holes, etc.	m ³	2		
	<u>Earth filling supplied by the Contractor under parking areas, walkways, etc:</u>				
113	Base course of G7 material compacted to 98% Mod AASHTO density under parking areas, walkways, seating, etc	m ³	38		
	<u>Keeping excavations free of water:</u>				
114	Keeping excavations free of water.	Item			
	<u>25Mpa/19mm Unreinforced Concrete:</u>				
115	Strip footings.	m ³	25		
	<u>25Mpa/19mm Reinforced Concrete:</u>				
116	Surface beds cast in panels on waterproofing.	m ³	15		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
117	Surface beds, etc.	m ²	132		
	<u>Smooth formwork to sides:</u>				
118	Edges, risers, ends, etc not exceeding 300mm high.to sides	m	311		
	<u>Fabric reinforcement:</u>				
119	Type 245 fabric reinforcement in concrete surface beds, etc.	m ²	132		
	<u>Precast concrete:</u>				
120	Precast concrete slab as seat 540mm wide and tapered from 75mm to 60mm thick, in suitable lengths, finished smooth on top, chamfered nosing and exposed edge.	m	2		
	<u>Brickwork of NFX bricks in class II mortar in foundations:</u>				
121	One brick wall of two half brick skins including wire ties.	m ²	70		
122	One and a half brick wall.	m ²	1		
123	One brick wall.	m ²	55		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>Brickwork of NFP bricks in class II mortar in superstructure:</u>					
124	Half brick walls.	m ²	1		
125	One brick wall of two half brick skins including wire ties.	m ²	5		
126	One and a half brick wall.	m ²	5		
127	Form recessed panel 5000mm wide x 1105mm high x 110mm deep in face of one and a half brick wall.	No	1		
<u>Galvanised brick reinforcement:</u>					
128	75mm Wide reinforcement built in horizontally in foundations.	m	14		
129	75mm Wide reinforcement built in horizontally.	m	52		
130	150mm Wide reinforcement built in horizontally in foundations.	m	1 661		
131	150mm Wide reinforcement built in horizontally.	m	20		
<u>Face bricks (PC R 9000.00 per 1000 bricks supplied and delivered to site) pointed with recessed horizontal and vertical joints:</u>					
132	Extra over brickwork for face brickwork in foundations.	m ²	3		
133	Extra over brickwork for face brickwork.	m ²	74		
134	220mm Brick-on-edge header course coping pointed on top and both sides.	m	13		
135	330mm Brick-on-edge header course coping pointed on top and both sides.	m	12		
<u>One layer 250 micron black polyethylene waterproof sheeting (SANS 952 Type C) laid with minimum 150mm overlaps and sealed with pressure sensitive tape:</u>					
136	Under surface beds.	m ²	93		
<u>5:1 Cement plaster on brickwork:</u>					
137	On walls.	m ²	6		
<u>Prepare surface and apply one coat Plascon Professional Alkali Resistant Plaster Primer and two coats Plascon Professional Superior Low Sheen acrylic emulsion paint or similar approved:</u>					
138	On external walls.	m ²	6		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
<u>FENCING</u>					
<u>Hot-dip galvanised steel high security fencing and gates in accordance with the project specification for high security fencing annexed to these bills of quantities for tender purposes, finished with 'Cochrane's patent 'Marine Fusion Bond coating of approved colour or other approved coating or similar approved:</u>					
139	Double swing gate 5,2 x 2,4m high overall in two equal leaves to match fencing panels with and including 76 x 76 x 2mm frame, transome and bracing, one drop bolt per leaf, suitable hinges, lock mechanism, keep, shark tooth spikes, etc and four unreinforced concrete (15MPa/19mm) anchor blocks with suitable length of pipe set in concrete to 30mm above ground level(posts elsewhere).	No	1		
140	Sliding gate 2,4m high to suit 5,0m clear opening and to match fencing panels with and including 76 x 50 x 2mm hollow section frame, transomes, mullions and cross bracing, stop, lock mechanism, shark tooth spikes, top guide and rollers, suitable wheels and track on unreinforced concrete (15MPa/19mm) sill, 100 x 100 x 2mm support post with 12mm diameter base pin and 400 x 400 x 850mm deep unreinforced concrete (15MPa/19mm) base.	No	1		
<u>Sundries:</u>					
141	Taking down and removing existing steel pedestrian gate and posts approximately 1,4 x 2,4m high overall from high security fence, including breaking up and removing concrete drop bolt anchor blocks and make good hot-dip galvanised and coated high security fence 2,4m high, including necessary posts, welded mesh fence panel, shark tooth spikes, etc and unreinforced concrete (15Mpa/19mm) bases for posts, all to match adjoining fence.	No	1		
142	Taking down and removing existing steel sliding vehicle gate and posts approximately 5,2 x 2,4m high overall from high security fence, including breaking up and removing concrete sill and track and make good hot-dip galvanised and coated high security fence 2,4m high, including necessary posts, welded mesh fence panels, shark tooth spikes, etc and unreinforced concrete (15Mpa/19mm) bases for posts, all to match adjoining fence.	No	1		
143	Extra over all excavations in earth for bases, etc for excavation in soft rock.	m ³	2		
Carried to Collection				R	

		Unit	Quantity	Rate	Amount
144	Extra over all excavations in earth for bases, etc for excavation in hard rock.	m ³	2		
145	70mm Stainless steel five pin discus padlock.	No	3		
	<u>SIGNAGE, ETC.</u>				
	<u>Standard traffic signs (600mm diameter and 900mm triangular) in accordance with South African Road Signs Manual comprising reflective face on reinforced aluminium backing fixed to and including galvanised mild steel posts with unreinforced concrete (20MPa/19mm) base 800 x 800 x 800mm deep including excavation, removal of surplus material from site, etc:</u>				
146	Stop code R1.	No	1		
	<u>LANDSCAPING</u>				
	<u>Selected topsoil obtained from prescribed stock piles on site including spreading and levelling</u>				
147	Imported topsoil supplied by the contractor spread and levelled over the site to form 150mm thick layer.	m ³	170		
148	Trim and level surface of topsoil to prepare for grassing including fertilizer	m ²	1 134		
	<u>Grassing:</u>				
149	Kikuyu grass	m ²	1 134		
	<u>Maintenance of landscaping after practical completion:</u>				
150	Allow for maintenance landscaping for a period of 3 months after practical completion including watering weeding cutting, replacing dead grass, etc.	Item			
	<u>FLAG POLES</u>				
	<u>EARTHWORKS (PROVISIONAL)</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
151	Holes. (Labour Intensive).	m ³	2		
	<u>Extra over all excavations for carting away:</u>				
152	Extra over all excavations for loading, carting and dumping surplus excavated material.	m ³	2		
	<u>Risk of collapse:</u>				
153	Allow for risk of collapse not exceeding 1.5m.	m ²	6		
Carried to Collection				R	

				TANDANANI SSS	
		Unit	Quantity	Rate	Amount
	<u>Keeping excavation free from water:</u>				
154	Keeping excavations free from water or mud.	Item			
	<u>30Mpa/19mm Concrete:</u>				
155	Bases. (Labour Intensive).	m ³	2		
	<u>Masonry</u>				
156	Piers.	m ³	1		
	<u>Face brickwork</u>				
	<u>Face bricks (PC R 9000.00 per 1000 bricks supplied and delivered to site) pointed with recessed horizontal and vertical joints:</u>				
157	Extra over brickwork for face brickwork.	m ²	6		
	<u>METALWORK</u>				
	<u>Galvanised Mild Steel:</u>				
158	101,6 x 2,8mm Tapering flagmast 6m long closed one end and with 300 x 300 x 6mm base plate welded on at other end including all necessary rope, pulleys, fastners, etc. Fixed complete.	No	2		
	<u>Sundries</u>				
159	Standard fabric South African flag with necessary fixing attachments suitable for flagmast.	No	1		
160	Standard fabric School flag with necessary fixing attachments suitable for flagmast.	No	1		
Carried to Collection				R	

		TANDANANI SSS	
		Amount	
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SECTION NO. 6
EXTERNAL WORKS
SECTION SUMMARY

Bill No.

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SECTION NO. 7
PROVISIONAL SUMS

TANDANANI SSS
Amount**SECTION NO. 7****PROVISIONAL SUMS****SUPPLEMENTARY PREAMBLES****General**

Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances

PROVISIONAL SUMS FOR DOMESTIC SUBCONTRACT WORKS

The following provisional amounts are for work to be carried out by domestic sub-contractors in terms of clause 23 of the Principal Building Agreement:

MECHANICAL VENTILATION

- 1 Provide the amount of R 100 000.00 (One Hundred and Fifty Thousand Rand) for mechanical ventilation (Aircons).
- 2 Profit on above item.
- 3 Attendance on ditto.
- 4 Allow for profit and attendance on CIDB D.U.I.L.D as per monetary allowance provided.

Item	100 000 00
Item	
Item	
Item	

BUDGETARY ALLOWANCES

The following budgetary allowances are for work to be executed by the contractor or his domestic subcontractors:

- 5 Provide the amount of R 20 000.00 (Twenty Thousand Rand) for the supply and installation of entrance wall signage.
- 6 Provide the amount of R 30 000.00 (Thirty Thousand Rand) for builder's work in connection with electrical and mechanical installations and existing unknown services on site.
- 7 Provide the amount of R 40 000.00 (Forty Five Thousand Rand) for the supply and installation of temporary water tank.
- 8 Provide the amount of R 100 000.00 (One Hundred Thousand Rand) for the supply and erection of temporary toilets.

Item	20 000 00
Item	30 000 00
Item	40 000 00
Item	100 000 00

Targeted Labour Allowances:

- 9 Provide the amount of R 144 000.00 (One Hundred and Forty Four Rand) for the employment during the construction period of a community liaison officer.
- 10 Profit and attendance on above item.

Item	144 000 00
Item	

Carried To Section Summary

R

MONETARY ALLOWANCES

The following monetary provisions are to be omitted from the contract sum and used as directed below:

- 11 Provide the amount of R 2 500 000.00 (Two Million and Five Thousand Rand) for CPAP.

TANDANANI SSS
Amount

Item 2 500 000 00

Carried To Section Summary

R

		TANDANANI SSS	
		Amount	
<u>SECTION NO. 7</u>			
<u>PROVISIONAL SUMS</u>			
<u>SECTION SUMMARY</u>			
	Page		
Brought forward from page	7-2		
Brought forward from page	7-3		
Carried to Final Summary		R	

Section No.	<u>FINAL SUMMARY</u>	Page		
1	PRELIMINARIES	14		
2	REPAIRS AND RENOVATIONS	2-29		
3	BUILDING WORKS	3-106		
4	ELECTRICAL INSTALLATION	4-2		
5	MECHANICAL INSTALLATION	5-2		
6	EXTERNAL WORKS	6-36		
7	PROVISIONAL SUMS	7-4		
	ADD: CONTINGENCIES			
	Allow the Amount of R2 500 000.00 (Two Million and Five Hundred Thousand Rands) for contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement.		2 500 000 00	
	ADD: CIDB B.U.I.L.D PROGRAMME			
	Allow 0,2% of sub-total amount for tender value of the project for CIDB best practice project assessment scheme.			
	SubTotal excluding Value Added Tax			
	ADD VAT @ 15%:			
	Carried to Tender		R	

Part 6: Site Information

C4 Site Information

**C4: SITE INFORMATION - JBCC 2000 PRINCIPAL BUILDING
AGREEMENT (Edition 4.1 of March 2005)**

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

C4 Site Information – Existing operational education facilities

GPS CO-ORDINATES	
GIS_Longitude	GIS_Latitude
-31.292649739269738	28.921958875178316

1. GROUND CONDITIONS

Geotech information not available. This is an existing site.

2. UNDERGROUND SERVICES

There are unidentifiable underground services traversing the area of works, care would need to be taken during excavations.

3. ADJACENT BUILDINGS

No adjacent buildings could be affected by the construction. No particular precautions have been identified by the Engineer for the protection of this structure.

4. ENVIRONMENTAL ISSUES

None

C5 Drawings

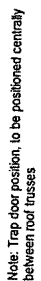
C5.1: DRAWINGS

Project title:	APPOINTMENT OF A CONTRACTOR FOR TANDANANI SSS
Bid No:	SCMU6-25/26-0002

Drawing tile	Drawing number	Print date	Rev No.
Site Diagram	1920 EC.3-AR-DES-0001		
Ground Floor Plan	1920.3 _AR_AA3_201		
Ceiling Plan	1920.3 _AR_AA3_202		
Roof Plan	1920.3 _AR_AA3_203		
Furniture Layout Plan	1920.3 _AR_AA3_204		
Sections	1920.3 _AR_AA3_300		
Sections	1920.3 _AR_AA3_301		
Elevations	1920.3 _AR_AA3_400		
Elevations	1920.3 _AR_AA3_401		
Ground Floor Plan	1920.3 _AR_CC2_201		
Ceiling Plan	1920.3 _AR_CC2_202		
Roof Plan	1920.3 _AR_CC2_203		
Furniture Layout Plan	1920.3 _AR_CC2_204		
Sections	1920.3 _AR_CC2_300		
Sections	1920.3 _AR_CC2_301		
Sections	1920.3 _AR_CC2_302		
Elevations	1920.3 _AR_CC2_400		
Elevations	1920.3 _AR_CC2_401		
Ground Floor Plan – Door and Window Schedule	1920.3 _AR_DD1_201		
Ceiling Plan	1920.3 _AR_DD1_202		
Roof Plan	1920.3 _AR_DD1_203		
Furniture Layout Plan	1920.3 _AR_DD1_204		
Sections	1920.3 _AR_DD1_300		
Elevations	1920.3 _AR_DD1_400		
Elevations	1920.3 _AR_DD1_401		
Ground Floor Plan	1920.3 _AR_DD3_201		
Ceiling Plan	1920.3 _AR_DD3_202		
Roof Plan	1920.3 _AR_DD3_203		
Furniture Layout Plan	1920.3 _AR_DD3_204		

Sections	1920.3 _AR_DD3_300		
Sections	1920.3 _AR_DD3_301		
Sections	1920.3 _AR_DD3_302		
Elevations	1920.3 _AR_DD3_400		
Elevations	1920.3 _AR_DD3_401		
Windows Construction	1920.3 _AR_DD3_500		
Ground Floor Plan	1920.3 _AR_DD4_201		
Ceiling plan	1920.3 _AR_DD4_202		
Roof plan	1920.3 _AR_DD4_203		
Furniture layout plan	1920.3 _AR_DD4_204		
Sections	1920.3 _AR_DD4_300		
Sections	1920.3 _AR_DD4_301		
Sections	1920.3 _AR_DD4_302		
Elevations	1920.3 _AR_DD4_400		
Elevations	1920.3 _AR_DD4_401		
Ground floor plan	1920.3 _AR_EE3_201		
Ceiling plan	1920.3 _AR_EE3_202		
Roof plan	1920.3 _AR_EE3_203		
Furniture layout plan	1920.3 _AR_EE3_204		
Sections	1920.3 _AR_EE3_300		
Sections	1920.3 _AR_EE3_301		
Elevations	1920.3 _AR_EE3_400		
Elevations	1920.3 _AR_EE3_401		
5x Classroom Blocks - Elevations			
Floor plan & elevations	1920.3 _AR_EE13_201		
Roof plan, ceiling plan & Furniture plan	1920.3 _AR_EE13_202		
Sections	1920.3 _AR_EE13_300		
Ground floor plan	1920.3 _AR_HH1_201		
Floor plan, ceiling plan, roof plan & Elevations	1920.3 _AR_HH1_202		
Sections	1920.3 _AR_HH1_300		
Site development plan	1920 EC.3-AR-DES-0001		

1
AR_AA3 200
3354



SCHEDULE OF AREAS	
ROOM NAME	AREA
ENTRANCE FOYER	24.3m ²
LOBBY	9.9m ²
PASTORAL ROOM	12.1m ²
STAFF ROOM	62.5m ²
KITCHEN	8.3m ²
SICK BAY 1	5.9m ²
SICK BAY 2	5.9m ²
STOCK / STORE	10.3m ²
PRINTING ROOM	6.2m ²
DEP. PRINCIPAL 1	12.2m ²
DEP. PRINCIPAL 2	12.2m ²
PRINCIPAL OFFICE	22.4m ²
STRONG ROOM	7.8m ²
RECEPTION	29.8m ²
PASSAGE	12.6m ²
TOTAL FLOOR AREA	278.71m ²
VERANDAH	72.1m ²
PATIO	8.0m ²
TOTAL OVERALL	355.2m ²

1
Ceiling Plan
1 : 100

THE DRAWING IS AN OFFICIAL DOCUMENT AND MUST BE REPRODUCED WITHOUT ANY PART OR WHOLE IN ANY MANNER WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT. ALL RIGHTS ARE RESERVED AND ANY VIOLATION OF ANY NATIONAL, INTERNATIONAL AND ANY REGULATIONS WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW. NO REFERENCE TO SCALE DRAWING. ALL RELEVANT DETAILS, MATERIALS AND DIMENSIONS TO BE CHECKED BY THE CLIENT. ALL DIMENSIONS ARE TO BE IN METERS TO THE ATTENTION OF THE CLIENT. ALL DIMENSIONS ARE INDICATED IN METERS.		CLIENT 		<table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO	DATE	DESCRIPTION																															PRINCIPAL AGENT BTM DISCIPLINE		 TCN Architects <table border="1"> <thead> <tr> <th>PROJECT NUMBER</th> <th>PROJECT NAME</th> <th>PROJECT LOCATION</th> </tr> </thead> <tbody> <tr> <td>1920.3</td> <td>CONSTRUCTION</td> <td>ANDAMANI SSS EMIS No. 200401401</td> </tr> </tbody> </table>		PROJECT NUMBER	PROJECT NAME	PROJECT LOCATION	1920.3	CONSTRUCTION	ANDAMANI SSS EMIS No. 200401401	CEILING PLAN <table border="1"> <thead> 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NOTE: FOR RAINWATER DOWNPIPES AND TANK POSITIONS, REFER TO SDP DETAILS

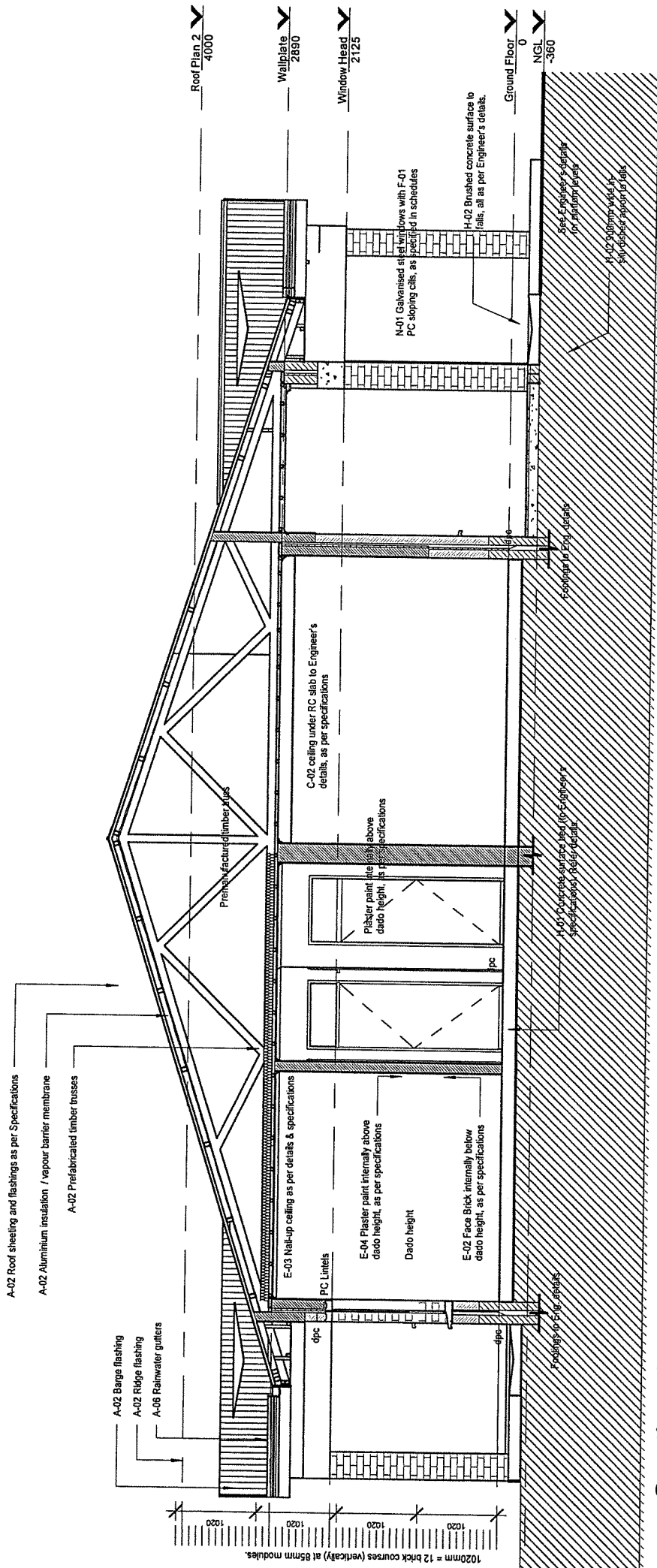
[illegible][illegible]

BTM

TCN Architects

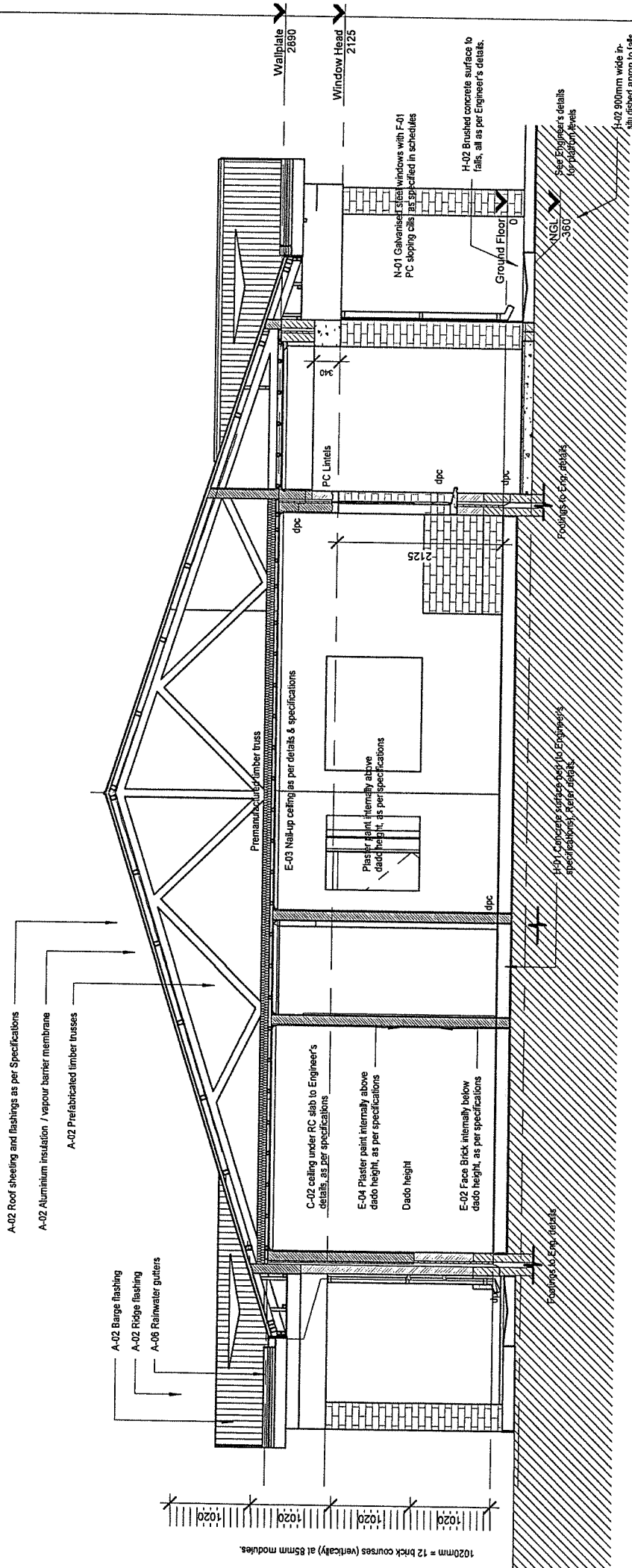
RECEIVED	TANDANANI SSS EMIS No. 200401401	CONSTRUCTION

[illegible]



Section 1
1 : 50

THE DRAWING IS SUBJECT TO COST PRICING AND MUST NOT BE USED FOR ANY OTHER PURPOSE WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT. THE ARCHITECT'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE BUILDING. THE ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE BUILDING. THE ARCHITECT IS NOT RESPONSIBLE FOR THE DESIGN OF THE BUILDING. THE ARCHITECT IS NOT RESPONSIBLE FOR THE DESIGN OF THE BUILDING.		1020mm = 12 brick courses (vertically) at 85mm modules.	
CLIENT		PRINCIPAL AGENT	
DISCIPLINE		ARCHITECTS	
TANDANANI SSS EMIS No. 200401401		CONSTRUCTION	
1920.3		1920.3	
1920.3 AR A43.300		1920.3	

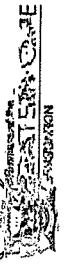


Section 2

1 : 50

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CLIENT



NO.	DATE	REVISION

PRINCIPAL AGENT



DISCIPLINE



TANDANANI SSS
EMIS No. 200401401

CONSTRUCTION

1920.3

SECTIONS

1920.3 AR AA3 301

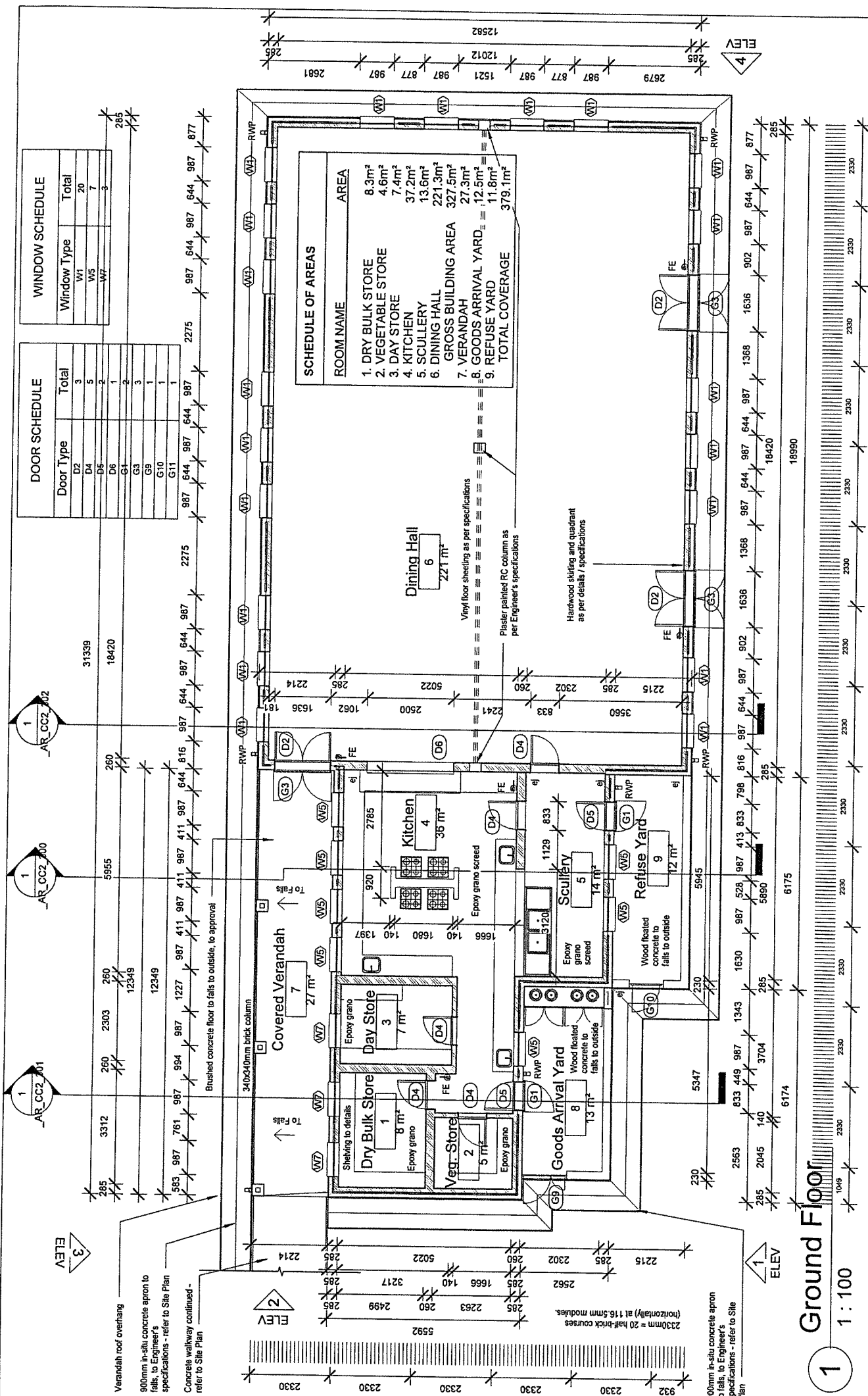
XX XX

1 : 50

DOOR SCHEDULE		
Door Type	Total	
D2	3	
D4	5	
D6	2	
D8	1	
G3	3	
G9	1	
G10	1	
G11	1	

WINDOW SCHEDULE		
Window Type	Total	
W1	20	
W5	7	
W7	3	

SCHEDULE OF AREAS		
ROOM NAME	AREA	
1. DRY BULK STORE	8.3m ²	
2. VEGETABLE STORE	4.6m ²	
3. DAY STORE	7.4m ²	
4. KITCHEN	37.2m ²	
5. SCULLERY	13.6m ²	
6. DINING HALL	221.3m ²	
7. GROSS BUILDING AREA	327.5m ²	
8. GOODS ARRIVAL YARD	27.3m ²	
9. REFUSE YARD	11.8m ²	
TOTAL COVERAGE	379.1m ²	



Ground Floor
1 : 100

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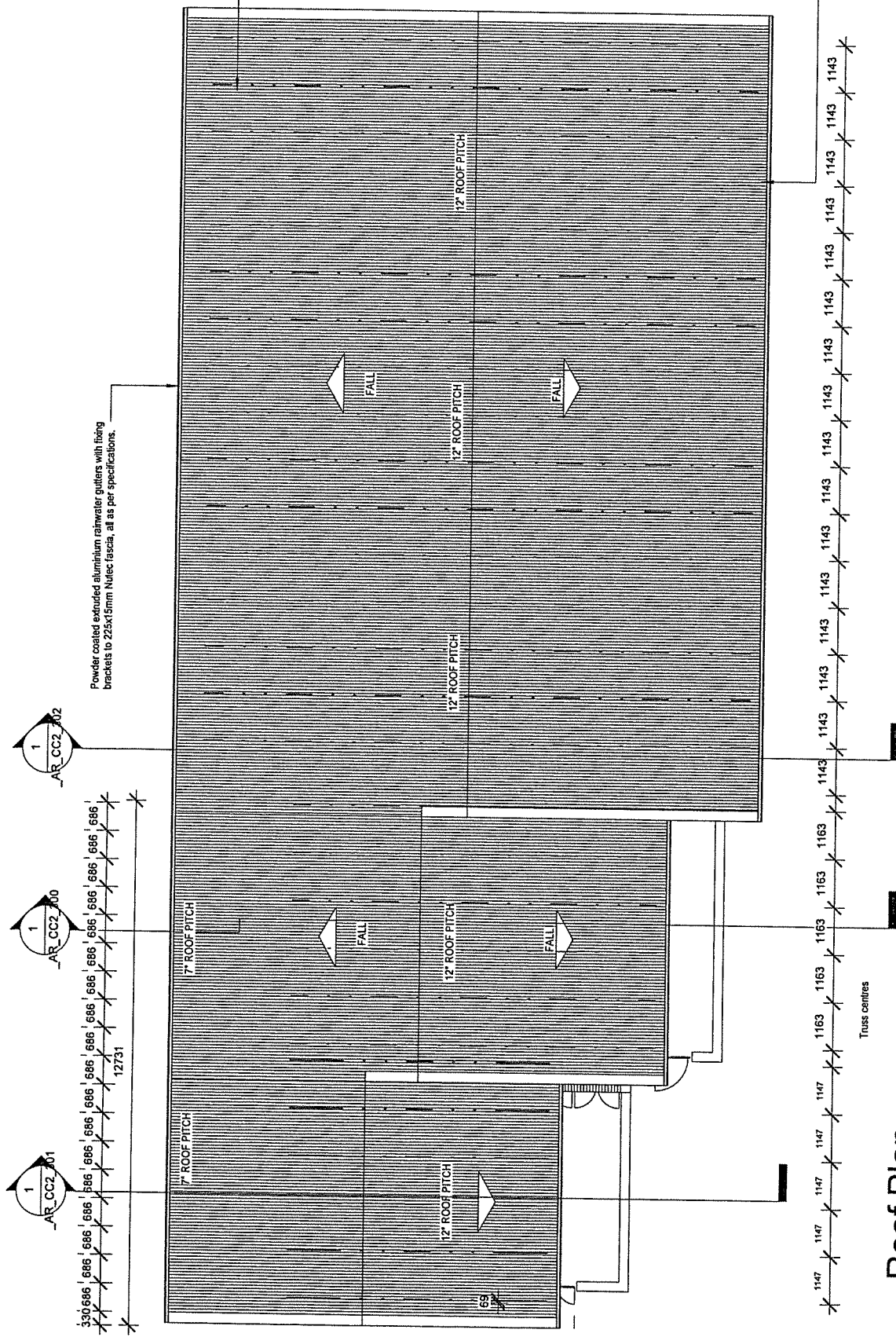
CLIENT
TANANANI SSS
EMIS No. 200401041

DISCIPLINE
BTM

TCN Architects

CONSTRUCTION
1920.3

GROUND FLOOR PLAN
1920.3_AR_CC2_201



Roof sheeting to be IFR 686 0.8mm thick Z200 Chromadek steel sheeting installed to Manufacturer's specifications and fixed with manufacturer approved fixings to 76x50mm timber purlins at max. 1200mm centres, on premanufactured engineered timber tusses to Specialist's detail and Engineer's approval. Fixed on 114x38mm SA Pine wallplate & tied down as per Engineer's specification and approval. Exposed timber members to be treated with carbolineum in accordance with the Manufacturer's specification.

NOTE:
Chromadek roof flashing & trims to approval

Note - all roof sheeting & flashing to receive 'Chromadek' finish to external surface & Grey Global Coat finish to underside

RWT's on stands to be determined on SNP

Powder coated extruded aluminium rainwater gutters with fixing brackets to 225x15mm Nutec fascia, all as per specifications.

1 Roof Plan
1 : 100

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TANDANANI SSS
EMIS No. 200401041

CONSTRUCTION

1920.3

1920.3_1

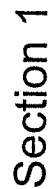
XX
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1920.3_AR_CC2_203

DD-MMM-YY	XX	X

MSB
 Medical Services
 1000 10th St. S.W.
 Seattle, WA 98104

512



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NORFOLK

EASTON

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1BTKM

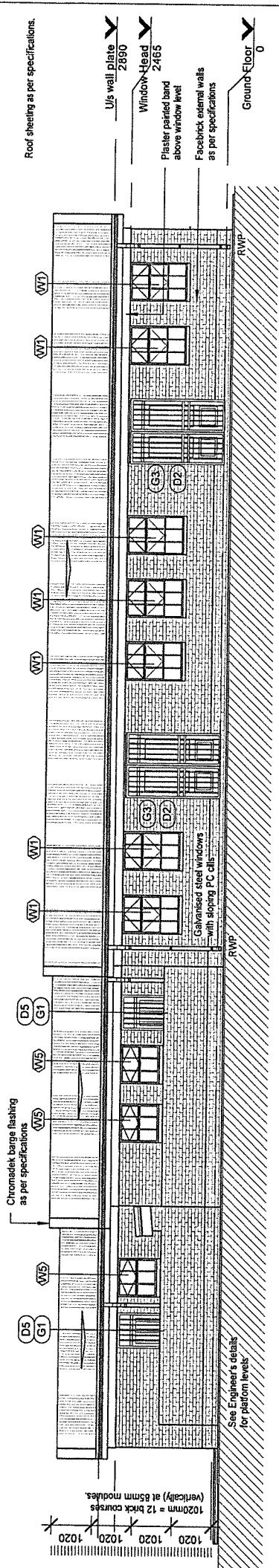


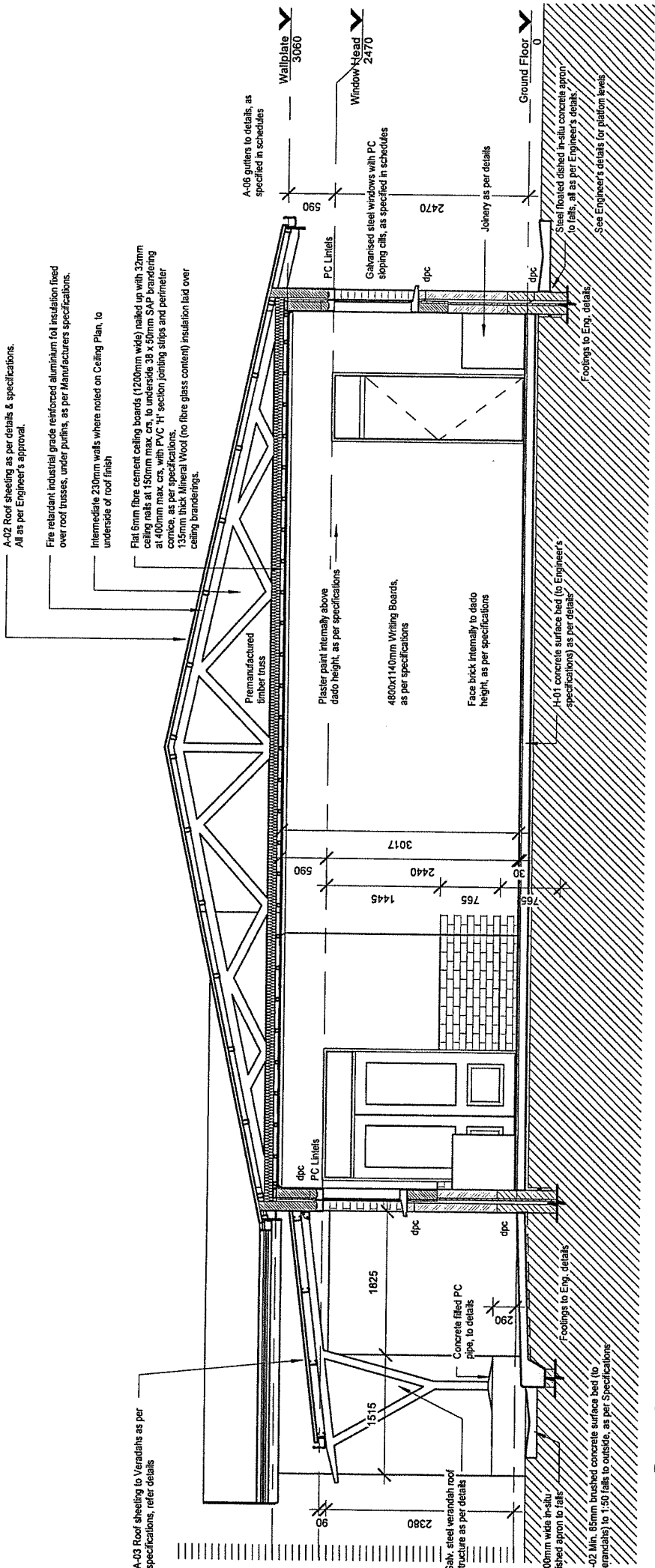
TANDANANI SSS
EMIS No. 200401041
CONSTRUCTION

SECTIONS

1920.3 A

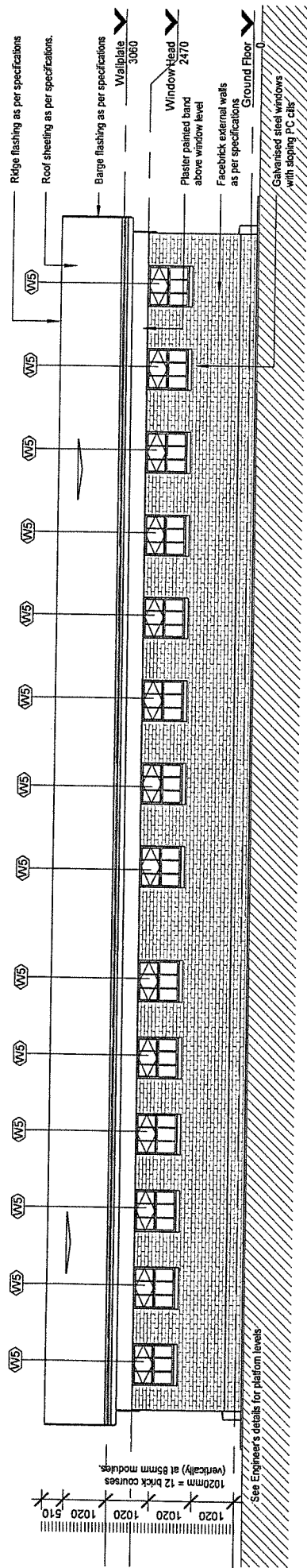
		CC2 300





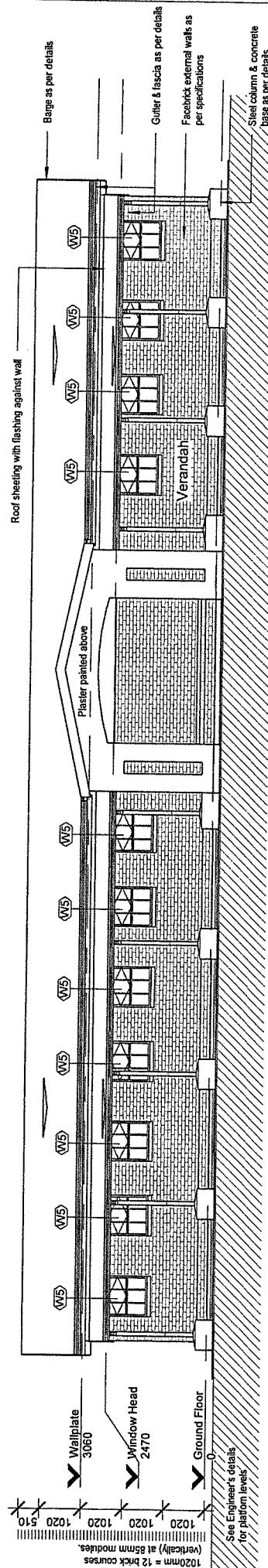
Section 1
1 : 50

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ELEVATION-1

1 : 100

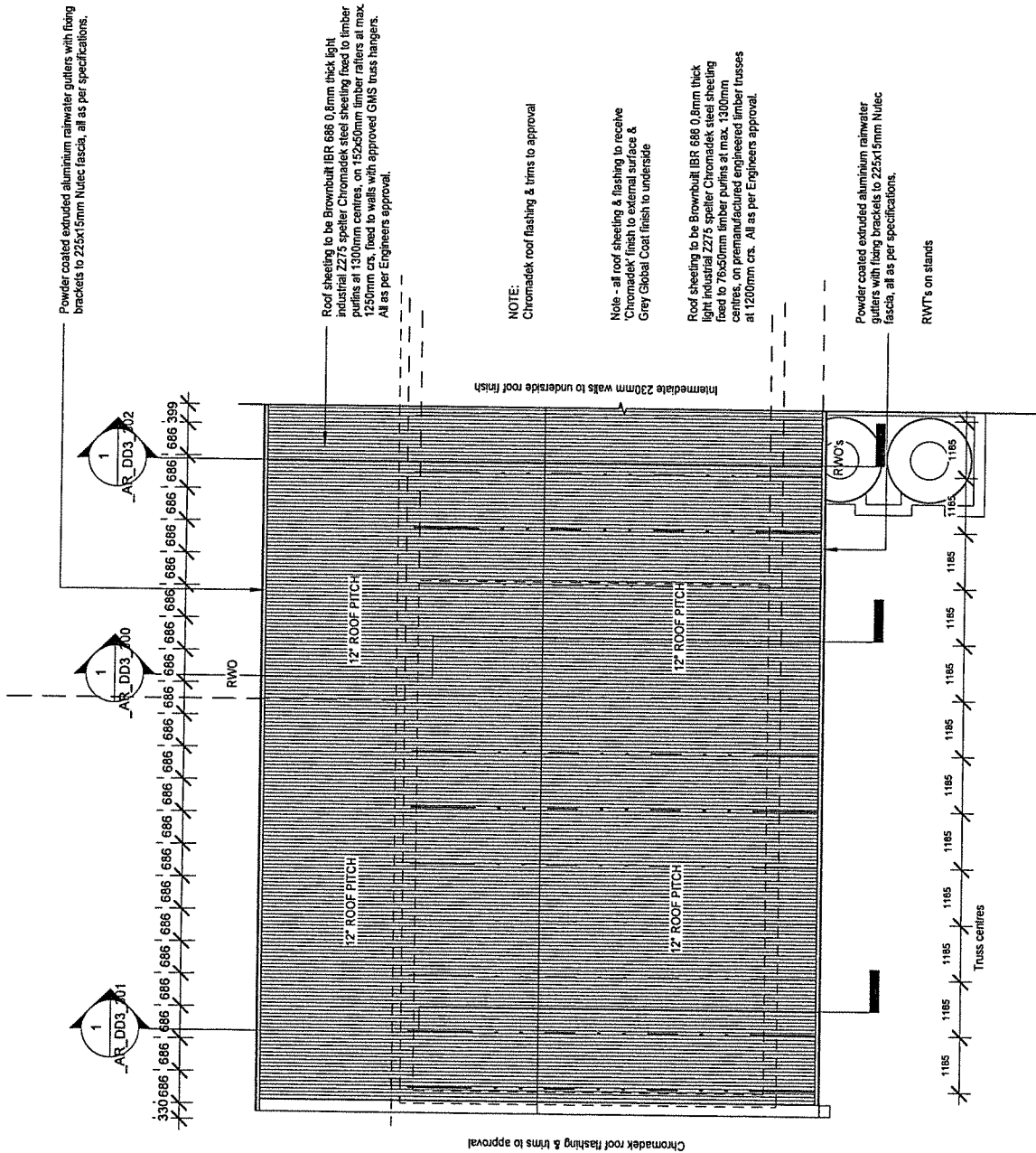


ELEVATION-3

2

1 : 100

[illegible]



Chromadek roof flashing & trims to approval

NOTE:
Chromadek roof flashing & trims to approval

Note - all roof sheeting & flashing to receive
Chromadek finish to external surface &
Grey Global Coat finish to underside

Roof sheeting to be Brownbult IBR 686 0.8mm thick light
light industrial Z275 speller Chromadek steel sheeting
fixed to 76x50mm timber purlins at max. 1300mm
centres, on premanufactured engineered timber trusses
at 1200mm c/s. All as per Engineers approval.

Powder coated extruded aluminium rainwater
gutters with fixing brackets to 225x15mm Nulec
fascia, all as per specifications.

RWT's on stands

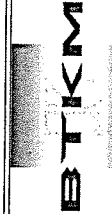
Roof Plan

1 : 100

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DISCIPLINE



TANDANANI SSS
EMIS No. 200401041
CONSTRUCTION
1920.3

ROOF PLAN
1920.3 AR_DD3_203
DWG
CHK
1 : 100

Roof sheeting to be Brownbult IIR 686 0.8mm thick light industrial Z275 speller Chromadek steel sheeting fixed to 76x50mm timber purlins at max. 1200mm centres, on premanufactured engineered timber trusses at 1200mm c/c, to approval, on 11x430mm SA Pine wallplate, & hoop-iron tied down min. 6 courses into brickwork. All as per Engineers approval.

100mm non-combustible mineral wool (no fibre glass) insulation blanket fitted between the beams and laid loose on top of branding.

Powder coated extruded aluminium rainwater gutters with fixing brackets to 225x15mm Nutec fascia, all as per specifications.

RWP & gutter on fascia, as specified
RC beam to engineer's details

50mm CLADIT CEILING TO VERANDAH,
FIXED TO U/S 30x50mm PINE
BRANDING AT 400mm CRS

340 x 340mm brickwork
column with concrete infill.

900mm wide in-situ
dished apron to falls

Concrete filled PC
pipe, to details

Footings to Eng. details.
Min. 65mm brushed concrete surface bed (to Verandah) to 1:50 falls
to outside, on 250micron USB DPM on 50mm sand binding layer on
max. 150mm layers well compacted fill.

Station@ FR 430 fire retardant industrial grade reinforced aluminium foil
insulation fixed over roof trusses, under purlins, as per Manufacturers specifications.

Intermediate 230mm walls to underside of roof finish

Intermediate 230mm walls to underside of roof finish

Powder coated extruded aluminium rainwater gutters
with fixing brackets to 225x15mm Nutec fascia, all as
per specifications.

U/s WallPlate 2890

PC finish

Window Head 2465

Ground Floor 0

See Engineers details
for platform levels

Steel floated dished in-situ concrete apron
to falls, all as per Engineers details.

Footings to Eng. details

Footings to Eng. details

Footings to Eng. details

Footings to Eng. details

Footings to Eng. details

Footings to Eng. details

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Footings to Eng. details

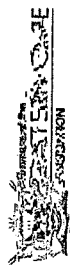
Footings to Eng. details

Footings to Eng. details

Section 1

1 : 50

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TANDANANI SSS
EMIS No. 200401041

CONSTRUCTION

1920.3

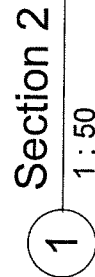
SECTIONS

1920.3 AR DD3 300

CHK

Issue Date

1 : 50



NOVEMBER 1971
THE JOURNAL OF THE
AMERICAN SOCIETY OF
CLIMATE CONTROL ENGINEERS
VOLUME 18, NUMBER 11
PUBLISHED BY THE
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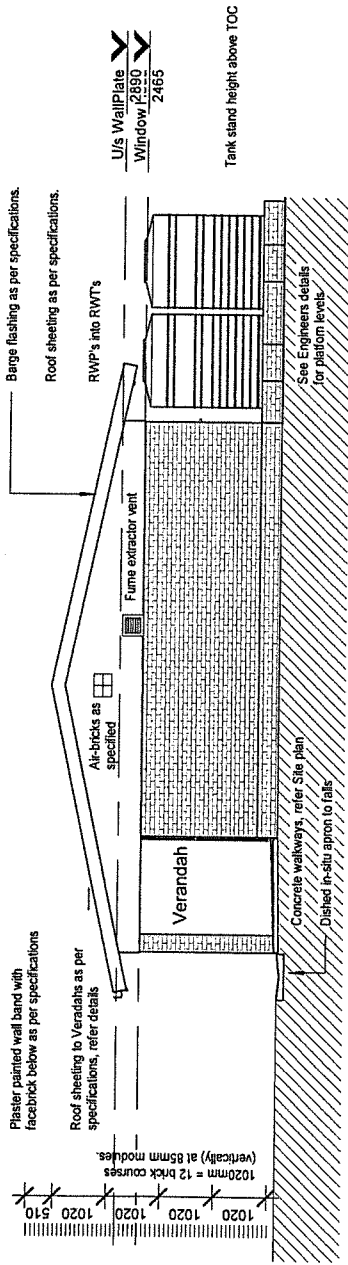
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TANDANANI SSS EMIS No. 200401041	CONSTRUCTION

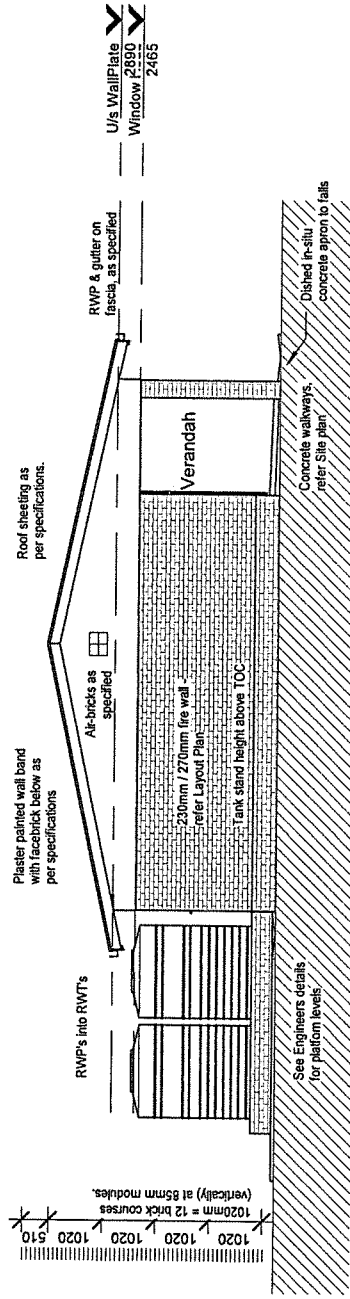
SECTION	1920.3 AR DD3 301	AR 1920.3
1920.3 AR DD3 301	1920.3 AR DD3 301	1920.3 AR DD3 301



ELEVATION-2

1

1 : 100



ELEVATION-4

2

1 : 100

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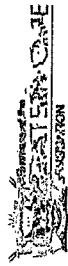
PREPARED BY: [NAME]

CHECKED BY: [NAME]

DATE: [DATE]

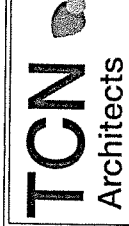
PROJECT: [PROJECT NAME]

CLIENT: [CLIENT NAME]



NO.	DATE	REVISION

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EMIS No. 200401041

CONSTRUCTION

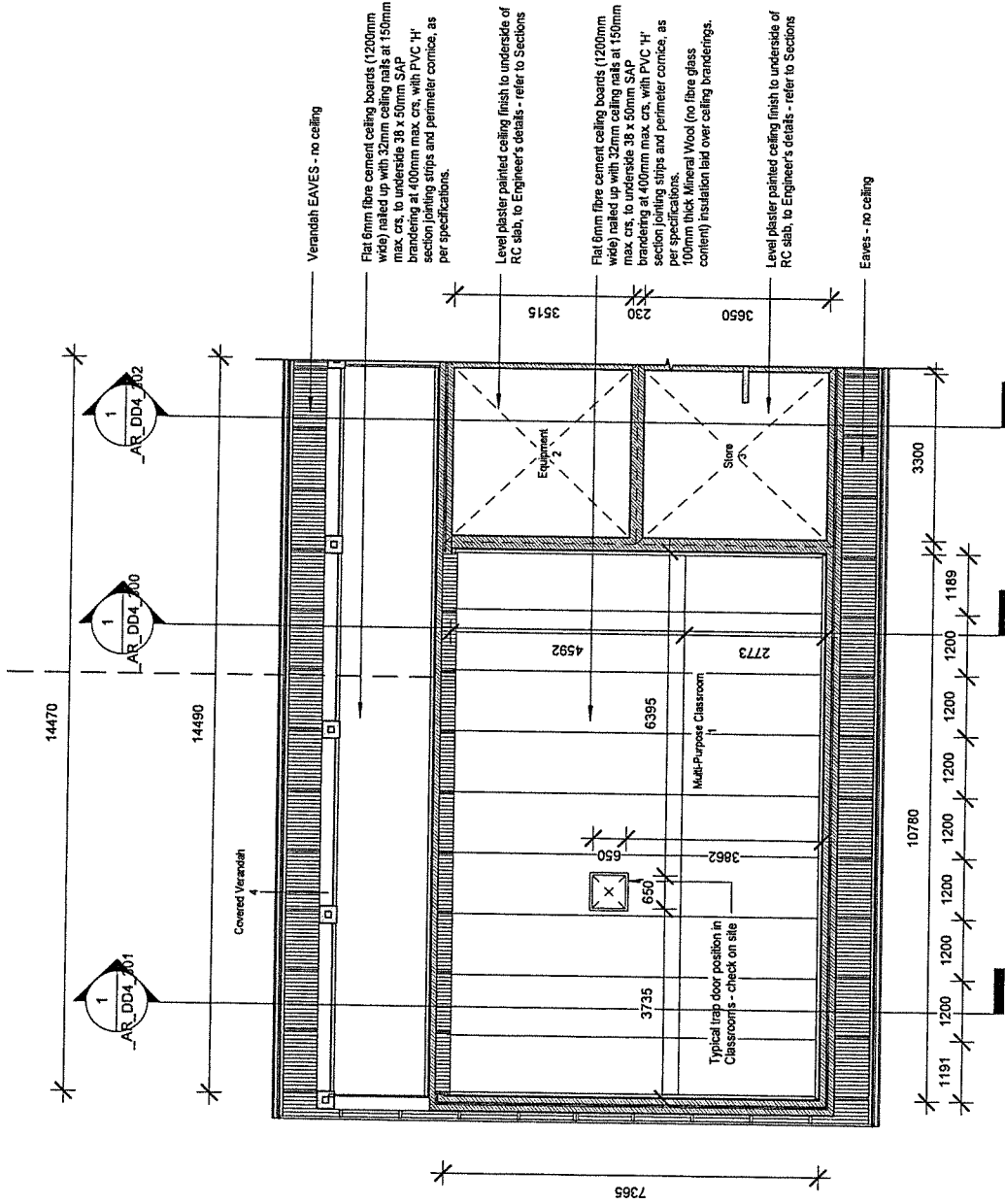
1920.3

ELEVATIONS

1920.3 AR_D03_401

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1 : 100



Ceiling Plan

1 : 100

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CONSTRUCTION

1920.3

CEILING PLAN

1920.3_AR_DD4_202

1 : 100



1

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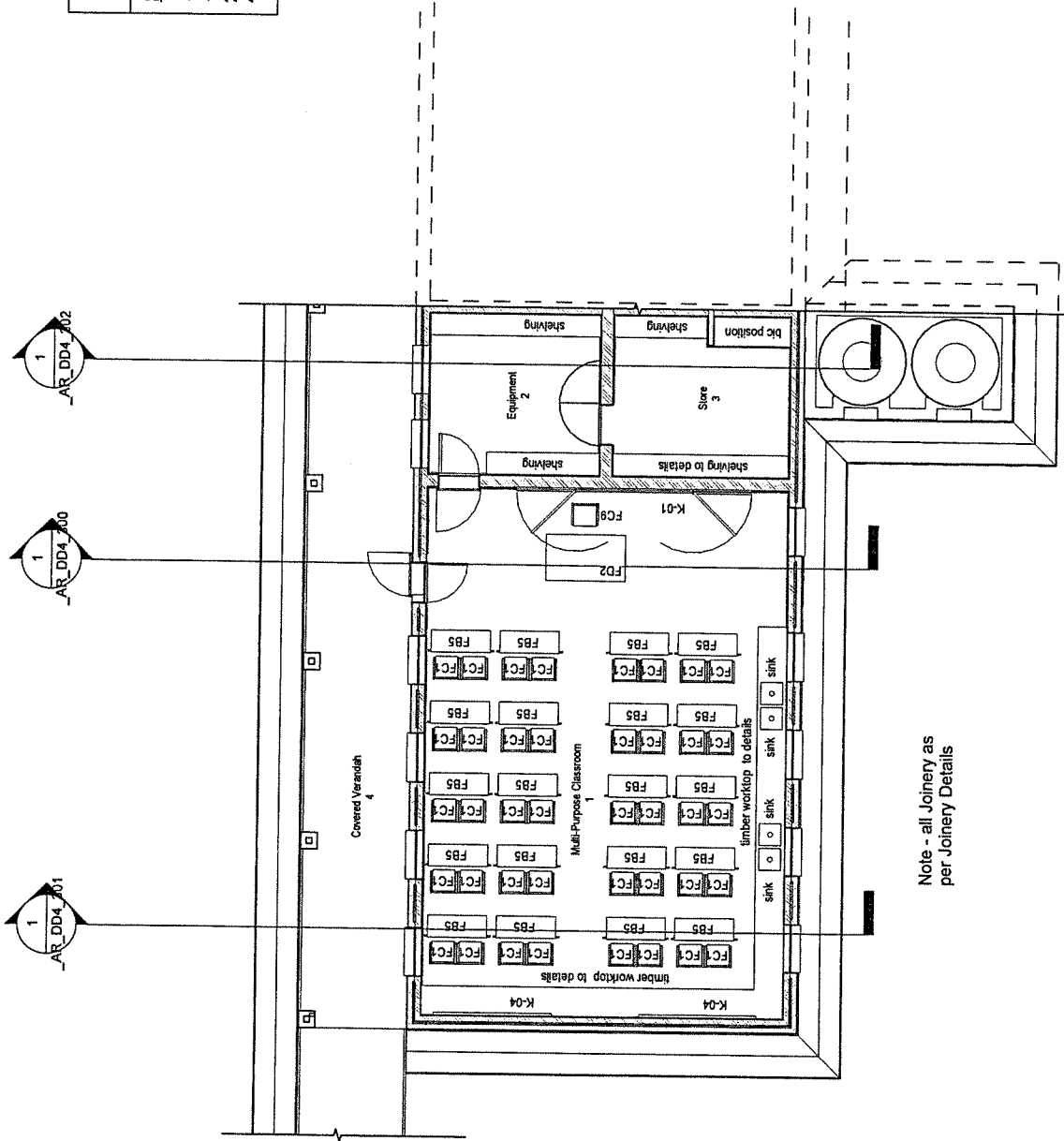
ROOF PLAN

1920.3_AR_DD4_203

MD

E 1:100

LOOSE FURNITURE SCHEDULE - REFER TO SCHEDULE ATTACHED	
No.	ITEM - MULTI-PURPOSE
1	FC9 TEACHERS CHAIRS
1	FD2 TEACHERS DESK
20	FB5 DOUBLE STACKABLE TABLES
40	FC1 STACKABLE CHAIRS

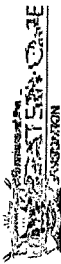


Note - all Joinery as
per Joinery Details

Furniture Plan

1 : 100

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FURNITURE LAYOUT PLAN

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1920.3

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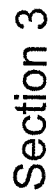
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Indicated



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NOTES ON THE

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ENTERTAINMENT

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EMIS No. 200401041

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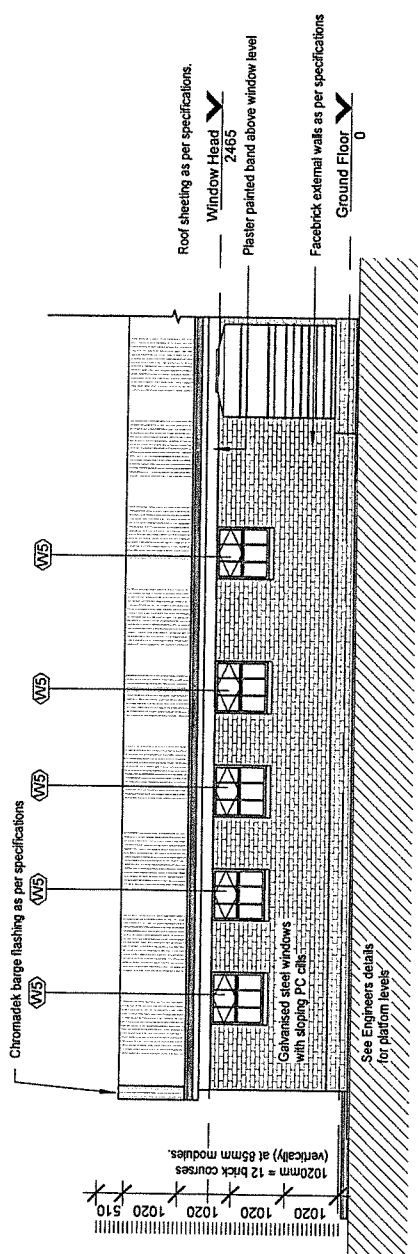
1920.3

SECTIONS

1920.3 AR DD4 302

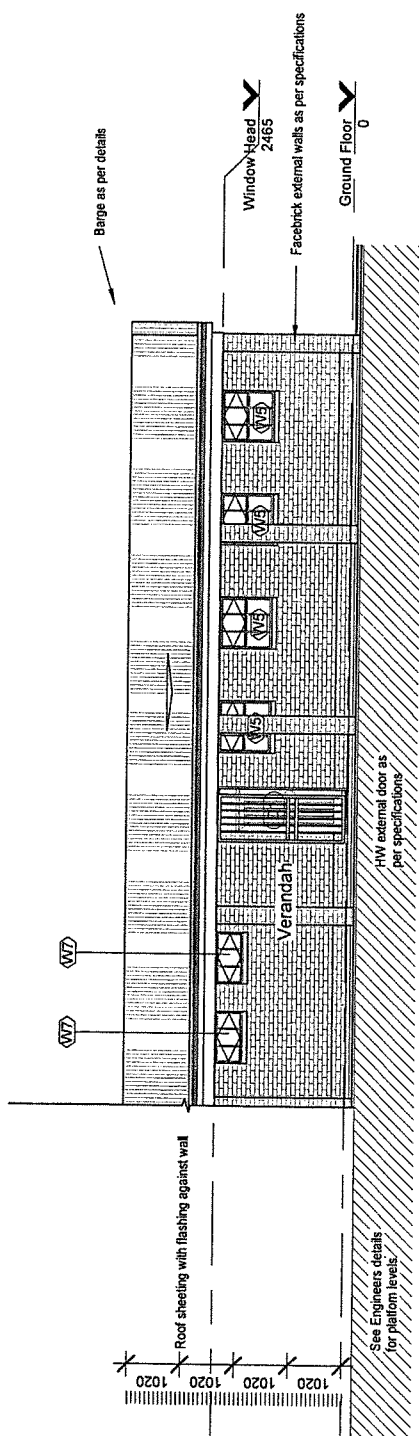
GCHK

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ELEVATION-1

1 : 100



ELEVATION-3

1 : 100

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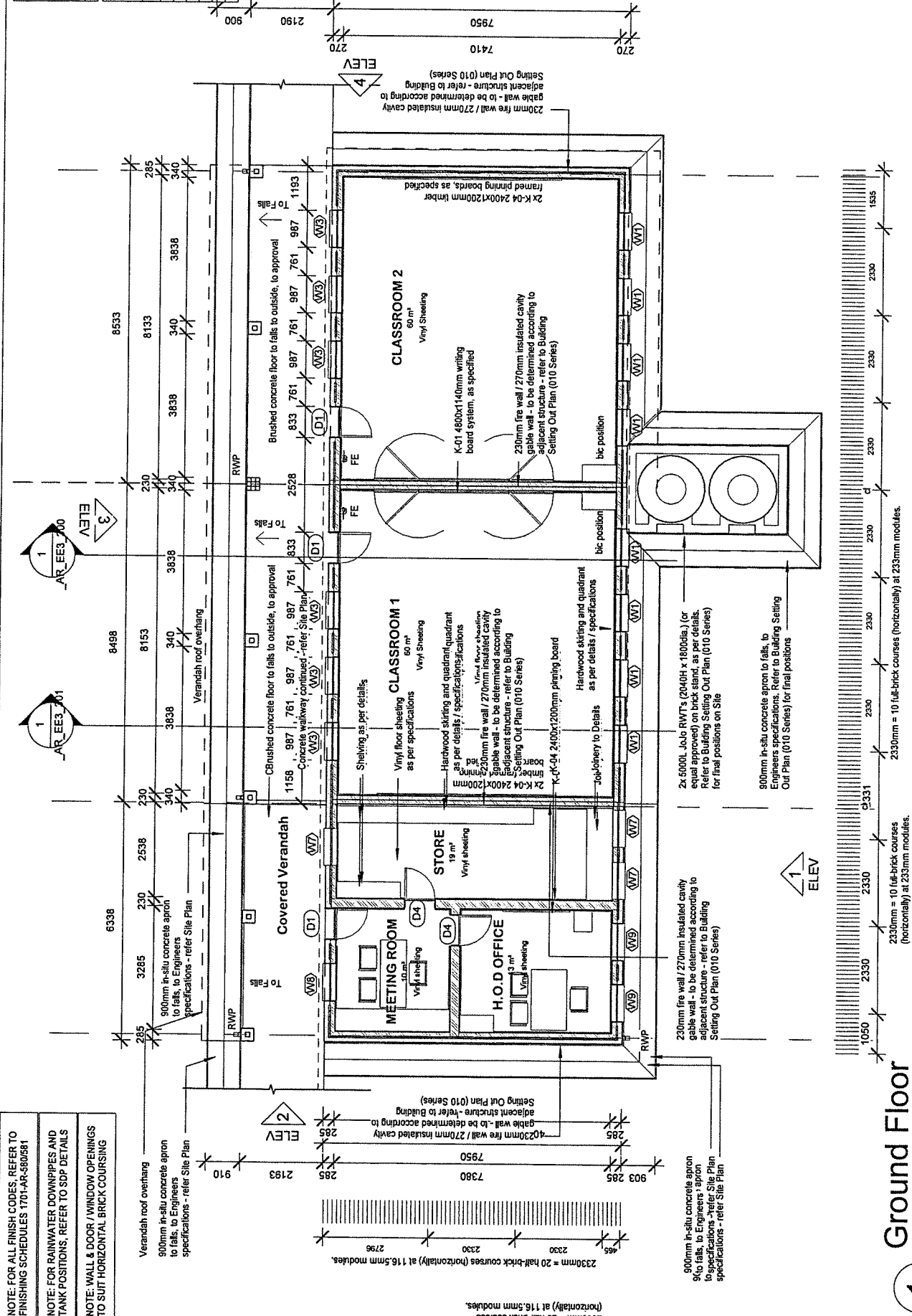
NOTE: FOR ALL FINISH CODES, REFER TO FINISHING SCHEDULES 1701-AR-580/581

NOTE: FOR RAINWATER DOWNPIPES AND TANK POSITIONS, REFER TO SDP DETAILS

NOTE: WALL & DOOR / WINDOW OPENINGS TO SUIT HORIZONTAL BRICK COURSING

DOOR SCHEDULE		
Door Type	Total	
D1	3	
D4	2	

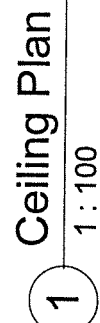
WINDOW SCHEDULE		
Window Type	Total	
W1	8	
W3	6	
W7	3	
W8	1	
W9	2	
W15	6	



Ground Floor

1 1 : 100

[illegible]



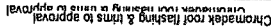
Flat 6mm fibre cement ceiling boards (1200mm wide) nailed up with 32mm ceiling nails at 150mm max. c/s, to underside 38 x 50mm SAP bracing at 400mm max. c/s, with PVC 'H' section jointing strips and perimeter cornice, as per specifications.
100mm thick Mineral Wool (no fibre glass content) insulation laid over ceiling branderings.

Eaves - no ceiling

1202.3 AR EE3 202	NO. 10
CEILING PLAN	

4

1 : 100



1 : 100

VG	CHK	Issue Date	1:100



NOVEMBER 1955

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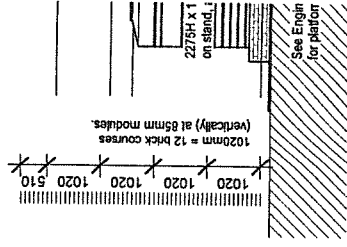
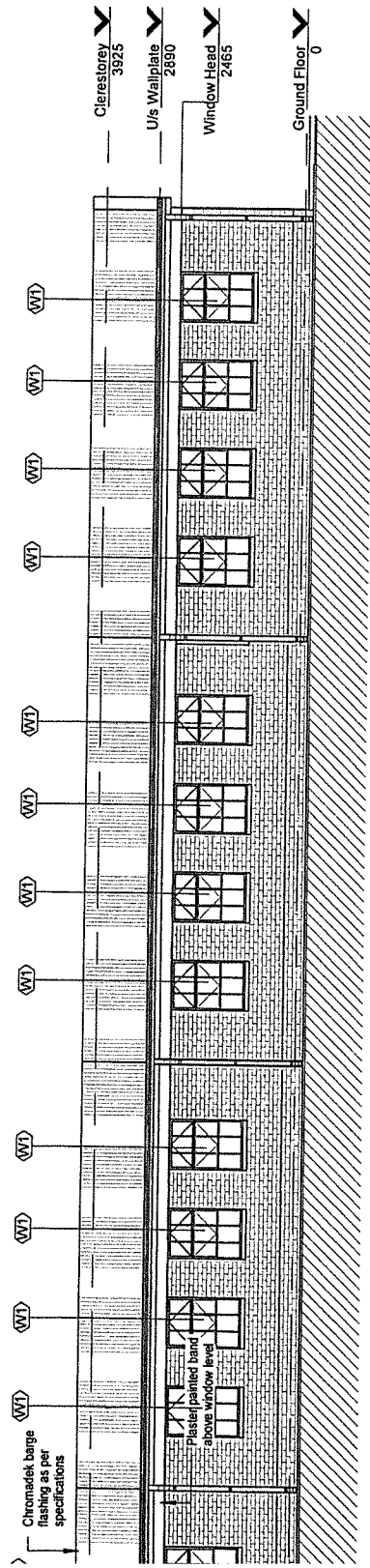
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CONSTRUCTION

1920.3_AR_EE3_300

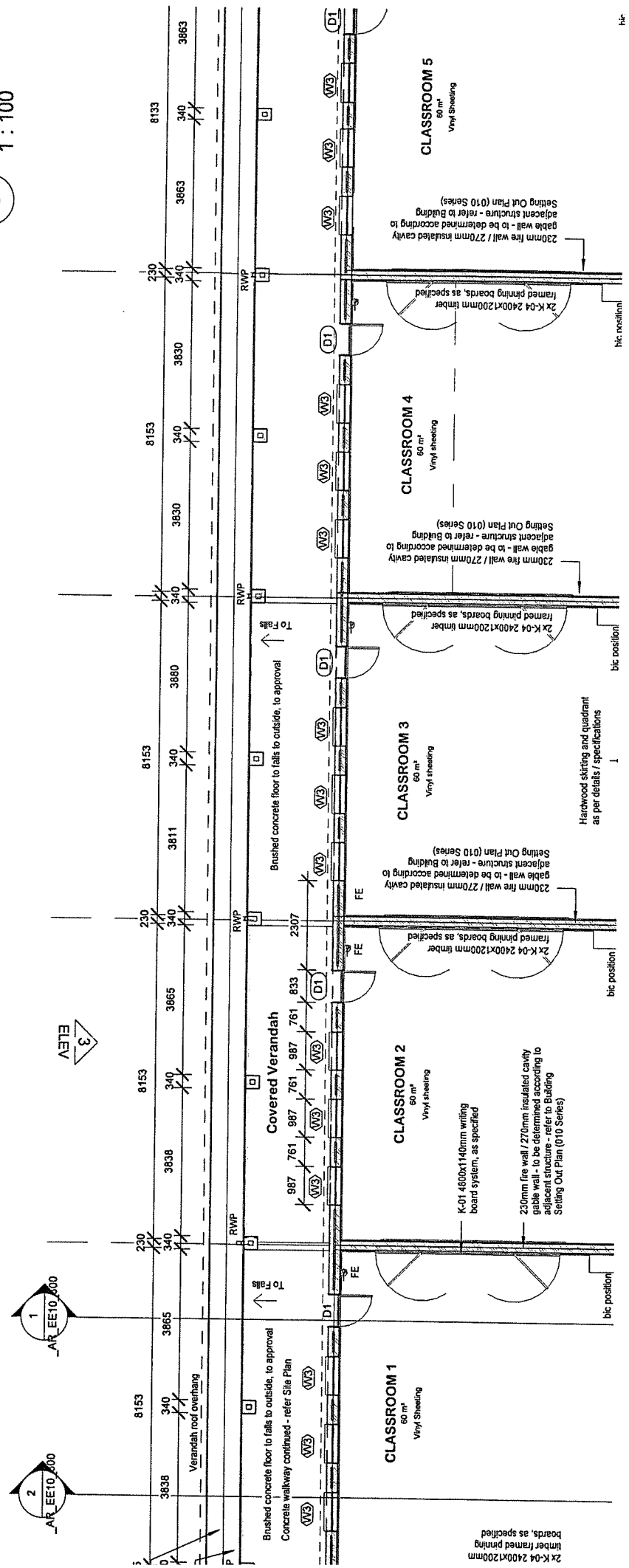
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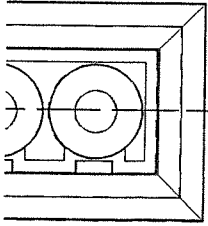




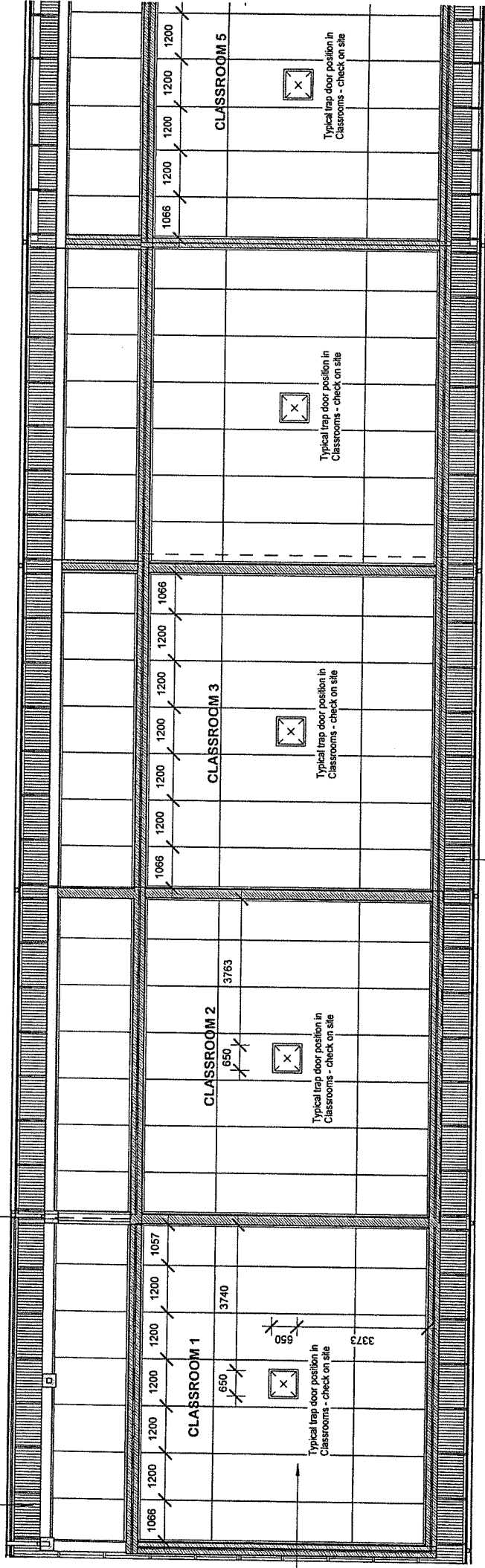
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1 : 100





Eaves - no ceiling



Eaves - no ceiling

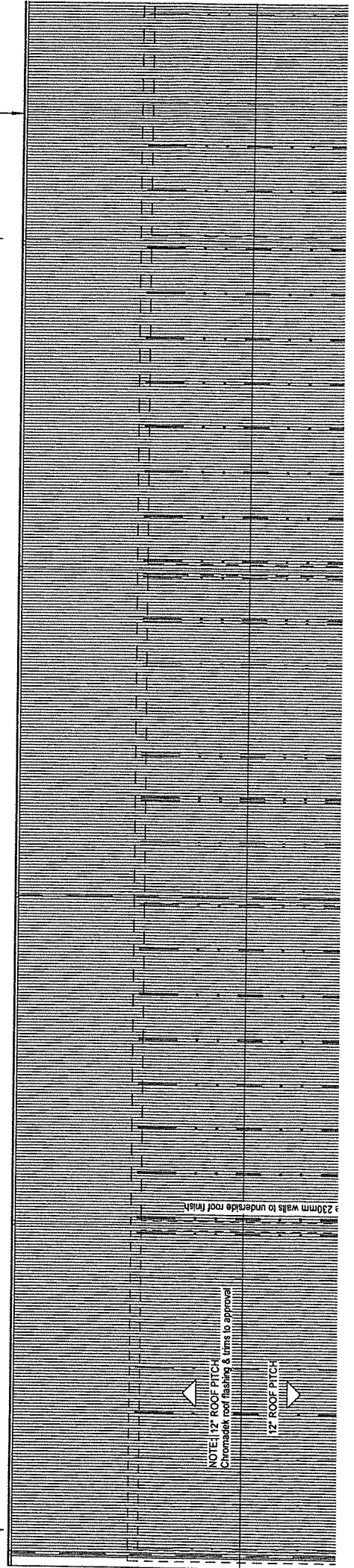
CL

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Powder coated extruded aluminum
rainwater gutters with fixing brackets to
225x15mm Aulec fascia, all as per
specifications.



adek roof flashing & trims to approval

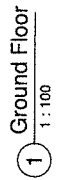
NOTE: 12° ROOF PITCH
Consistent roof flashing & trims to approval

12° ROOF PITCH

230mm walls to underside roof finish

Window Type	Total
W1	20
W2	15
W3	5

NOTE: FOR ALL FINISH CODES, REFER TO FINISHING SCHEDULES 1791-AN-510-561.



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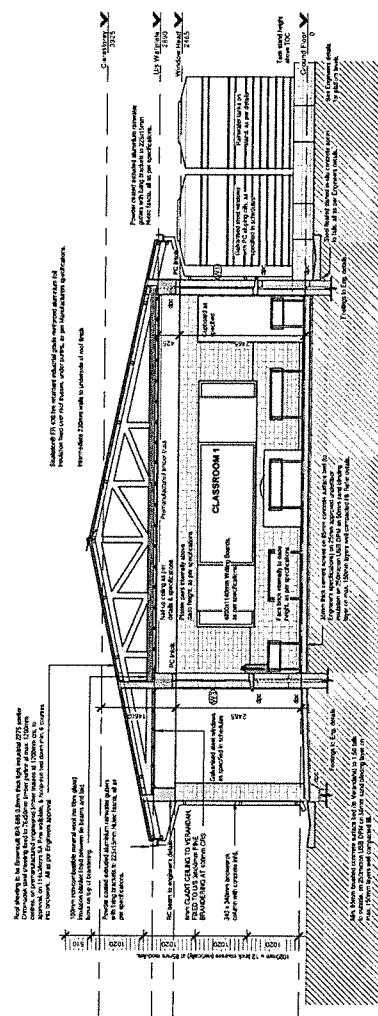
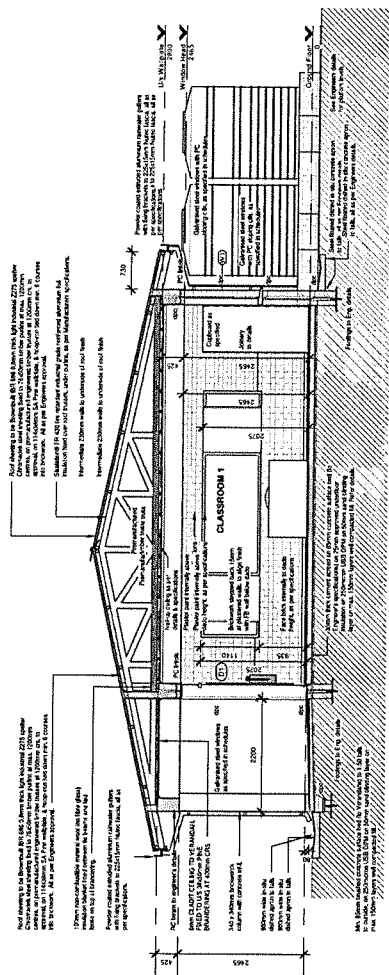
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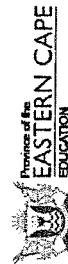
TANDANANI SSS EMIS No. 200401041	CONSTRUCTION	1920.3

1920.3 AR EE13 201	REVISIONS	DATE	BY	REASON
1920.3 AR EE13 201	1	00/00/00	00	00



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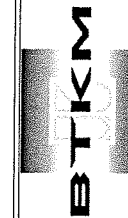
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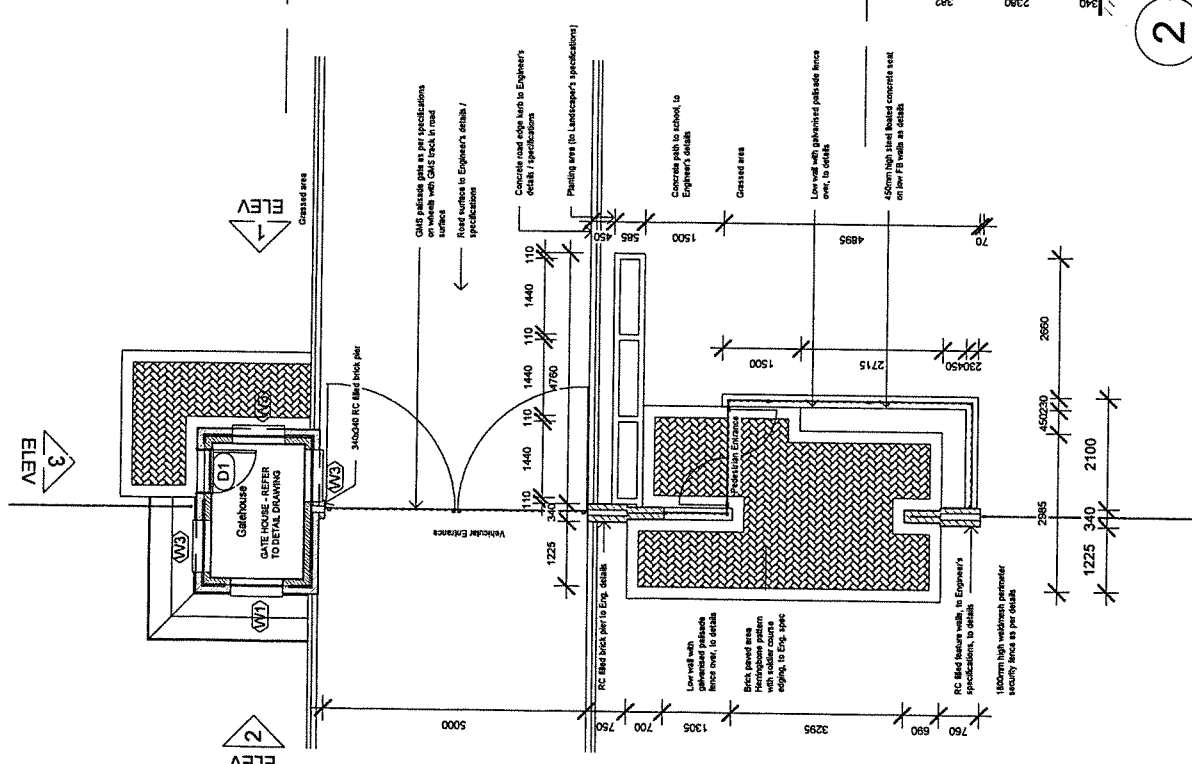
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DISCIPLINE



SECTION	1220.3 AR EE13 300	NO. 1220.3
TANDANANI SSS EMIS No. 200407041	CONSTRUCTION	1220.3 AR EE13 300



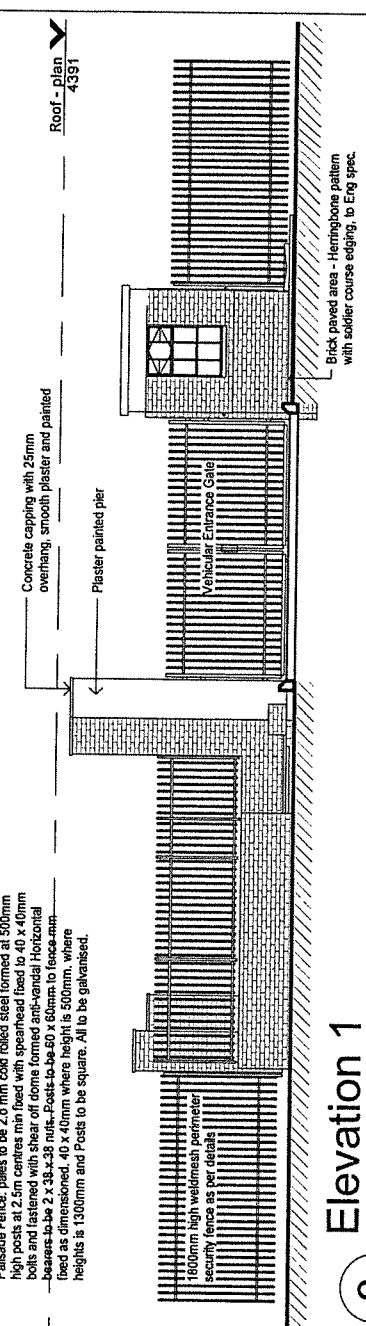
Ground Floor
1 : 100

Palisade Fence: pales to be 2.0 mm cold rolled steel formed at 500mm high posts at 2.5m centres min fixed with spearhead fixed to 40 x 40mm bolts and fastened with shear off dome formed anti-vandal Horizontal beam to be 2 x 38 x 38 mm. Posts to be 50 x 50mm to fence min fixed as dimensioned. 40 x 40mm where height is 500mm, where heights is 1300mm and Posts to be square. All to be galvanised.

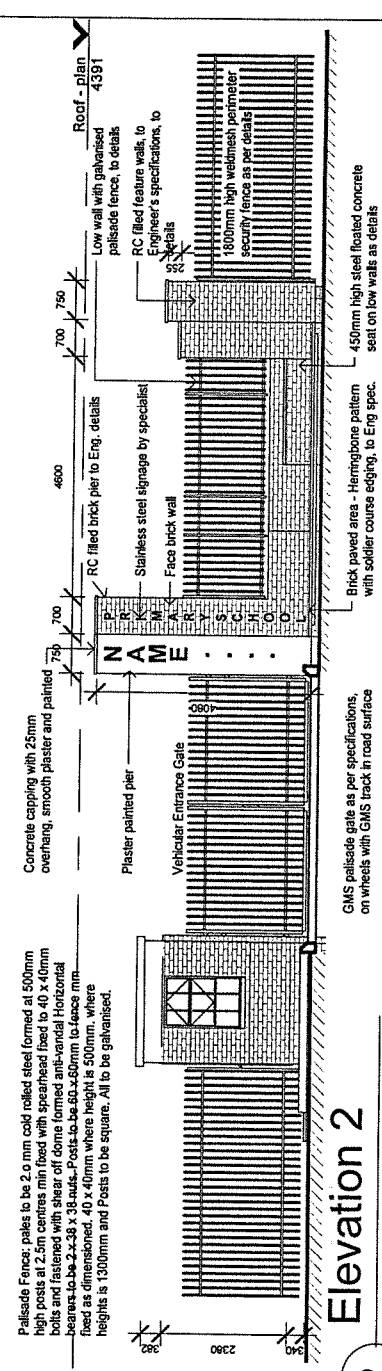
Elevation 1
3 : 100

Palisade Fence: pales to be 2.0 mm cold rolled steel formed at 500mm high posts at 2.5m centres min fixed with spearhead fixed to 40 x 40mm bolts and fastened with shear off dome formed anti-vandal Horizontal beam to be 2 x 38 x 38 mm. Posts to be 50 x 50mm to fence min fixed as dimensioned. 40 x 40mm where height is 500mm, where heights is 1300mm and Posts to be square. All to be galvanised.

Elevation 2
2 : 100

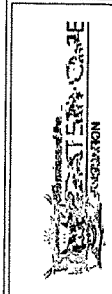


Roof - plan
4391

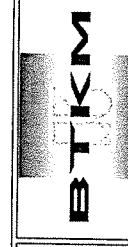


Roof - plan
4391

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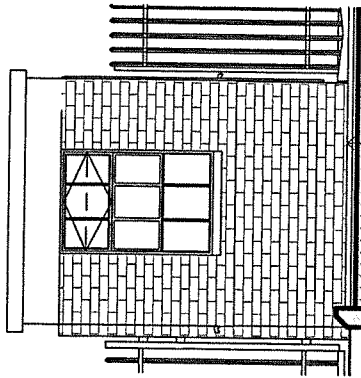
NO.	DATE	REVISION



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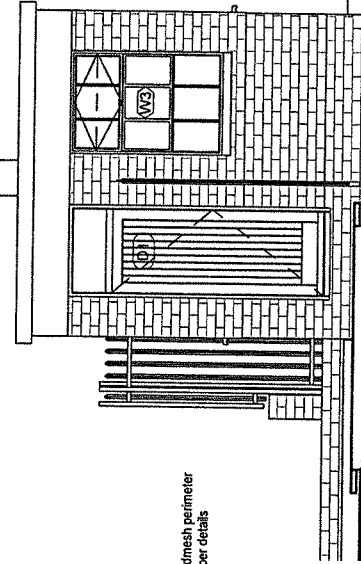
TANDANANI SSS
EMIS No. 200401041
CONSTRUCTION
1920.3

GROUND FLOOR PLAN
1920.3_AR_HH_201
DWG CHK
1 : 100



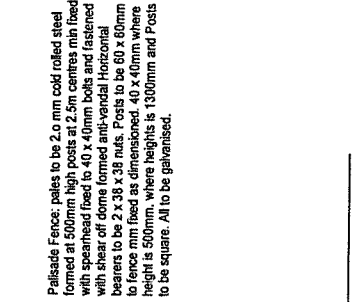
Elevation 01

1 : 50



Elevation 03

1 : 50



Elevation 02

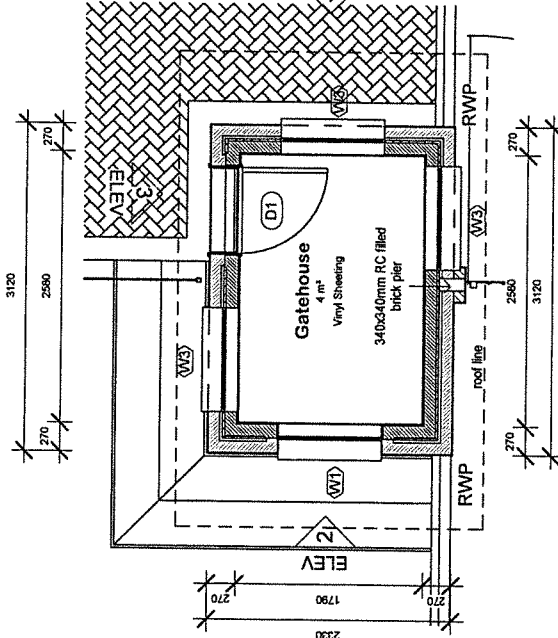
1 : 50

Palisade Fence: pales to be 2.0 mm cold rolled steel formed at 500mm high posts at 2.5m centres min fixed with spearhead fixed to 40 x 10mm bolts and fastened with shear off dome formed anti-vandal horizontal bearers to be 2 x 38 x 38 nuts. Posts to be 60 x 60mm to fence min fixed as dimensioned. 40 x 10mm where height is 500mm, where heights is 1300mm and posts to be square. All to be galvanised.

1800mm high weldmesh perimeter security fence as per details

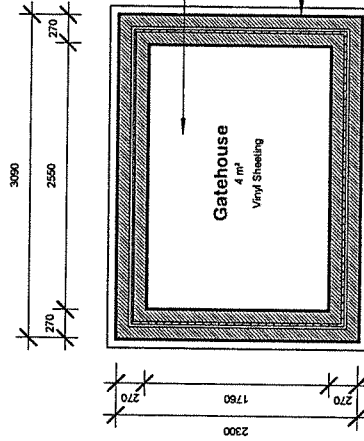
Brick paved area - Herringbone pattern with soldier course edging, to Eng spec.

GMS palisade gate as per specifications, on wheels with GMS track in road surface



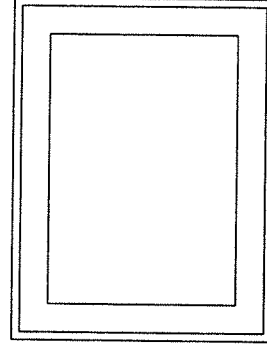
Gate House - Floor Plan

1 : 50



Ceiling Plan

1 : 50



Roof - plan

1 : 50

ROOF NOTES:
ROOF CONSTRUCTION TO BE AS PER ENGINEER'S SPECIFICATION.

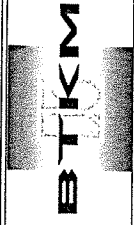
Approved heat applied waterproofing bituminous membrane to be installed as per manufacturers specifications and details, on min. 35mm cement screed to falls to outsides, on waterproof RC slab, as per Engineer's details, with 75mm overhang and external drip below.

1. THE DRAWING IS SUBJECT TO THE APPROVAL OF THE ARCHITECT AND THE CLIENT. ANY CHANGES TO THE DRAWING MUST BE APPROVED BY THE ARCHITECT AND THE CLIENT. ANY CHANGES TO THE DRAWING MUST BE APPROVED BY THE ARCHITECT AND THE CLIENT. ANY CHANGES TO THE DRAWING MUST BE APPROVED BY THE ARCHITECT AND THE CLIENT.



CLIENT

PRINCIPAL AGENT



TCN Architects

TANDANANI SSS
EMIS No. 200401041

CONSTRUCTION

1920.3

Floor Plan, Ceiling Plan, Roof Plan & Elevations

1920.3

1920.3

1920.3

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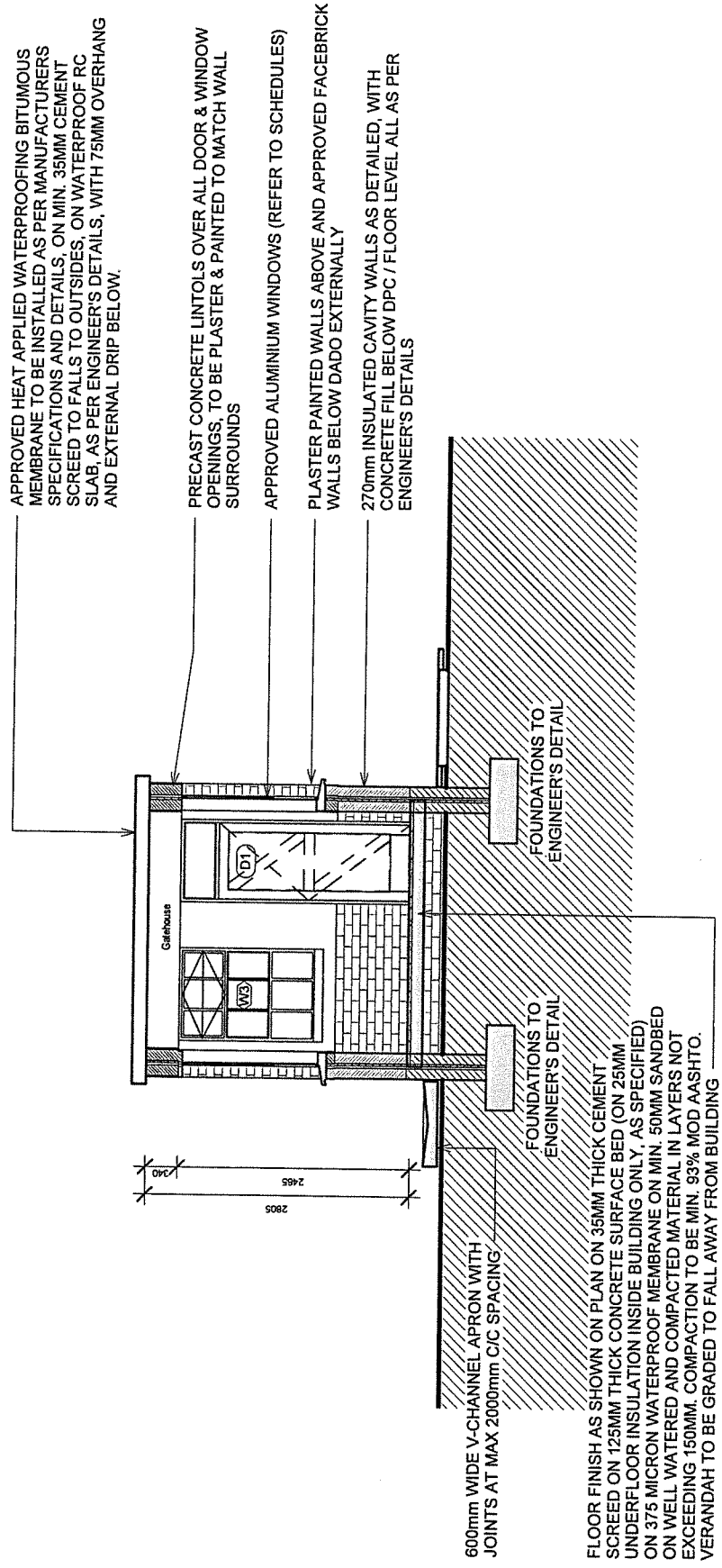
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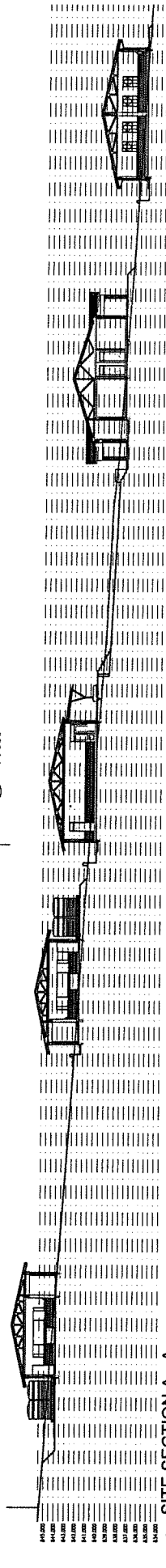
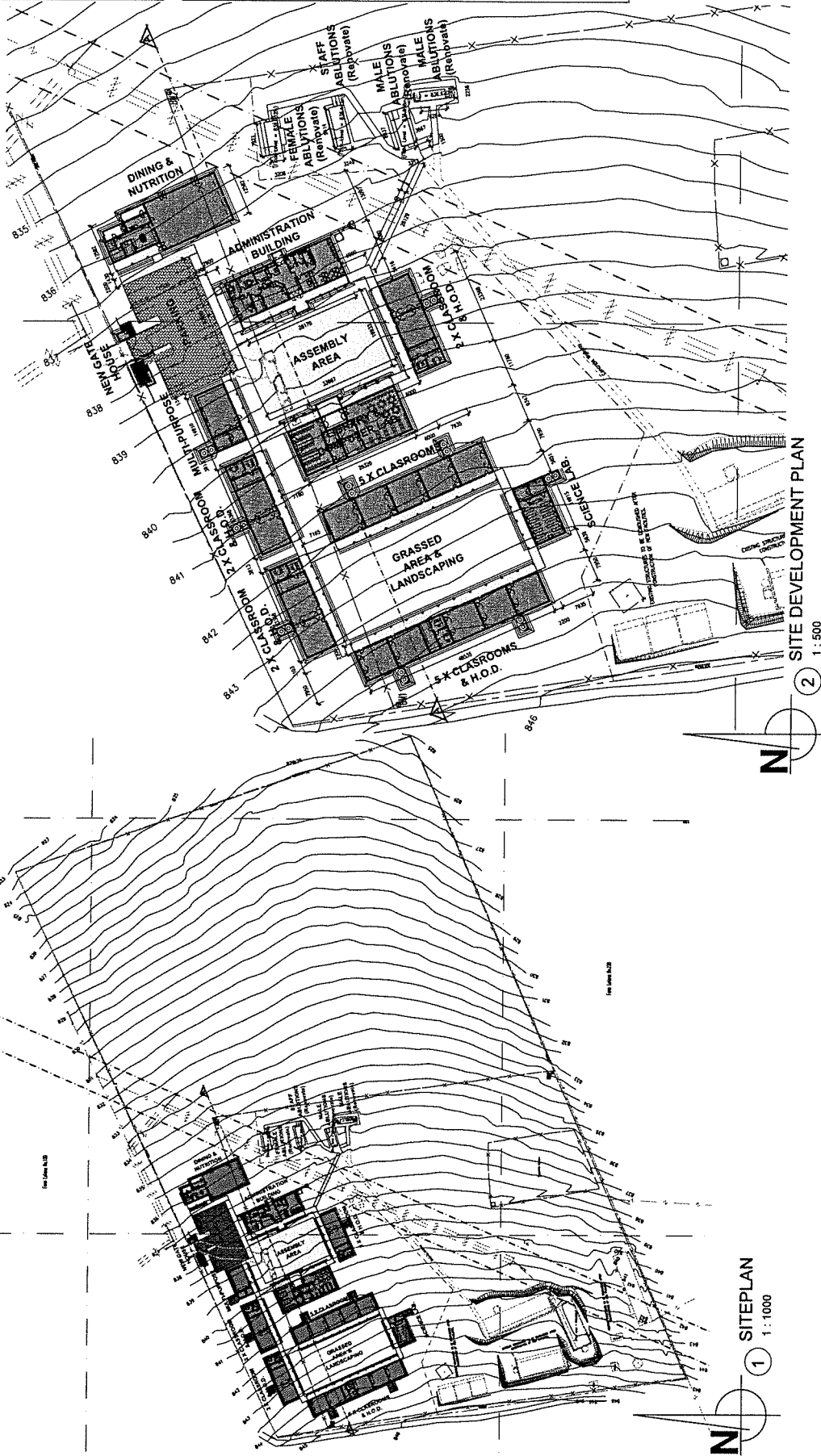
Section A

1 1:50

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ARCHITECT TCN Architects		SECTIONS 1920.3 AR_HH1_300 1920.3	
PRINCIPAL AGENT BTM		CONSTRUCTION 1920.3	
DATE 1920.3		DWG CHK 1:50	

TABLE 1: SUMMARY OF HUMAN			
TABLE 1.1: GROSS EMPLOYMENT REQUIREMENTS FOR S&P			
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TABLE 2: SUMMARY FOR SCOPE OF			
TABLE 2.1: GROSS EMPLOYMENT REQUIREMENTS FOR S&P			
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