



TENDER

DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL

SCMU5-26/27-0051

NAME OF COMPANY:

CSD Nr:

CRS Nr (CIDB):

CLOSING DATE: 29 SEPTEMBER 2026

TIME: 11:00 AM

Department of Public Works and Infrastructure
Independence Avenue
Qhasana Building
Bhisho
5605





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THE TENDER



PART T1

TENDERING PROCEDURES



PART T1.1: TENDER NOTICE AND INVITATION TO TENDER



T1.1 Tender Notice and Invitation to Tender

The Eastern Cape Department of Public Works and Infrastructure invites contractors with the CIDB grading of **8GB or Higher** in the following Class of works **General Building (GB)** to tender for the **“DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL”** for **28-months** contract. The contract will be based on the JBCC Edition 6.2 of 2018, and the Eastern Cape Public Works and Infrastructure will enter into a contract with the successful tenderer. Approximately 30% of subcontracting is to be allocated to SMMEs, which consists of 25% local SMMEs and 5% ICDP contractors in that region.

Only tenderers who have suitable experience and suitably qualified personnel in providing similar services to those that are required are eligible to submit tenders.

Bid documents are downloadable free of charge from the Department of Public Works and Infrastructure website (www.ecdpw.gov.za/tenders) or from National Treasury's tender portal (www.etender.gov.za/content/advertised-tenders). **Bid documents will be available from 28 August 2026.** No bid documents will be available at department offices.

There will be a **non-compulsory briefing meeting** on **10 September 2026** at **Arcadia Senior Secondary School**. Prospective bidders are to meet at **Arcadia Senior Secondary School** at **11:00am**. Co-ordinates: -33.8779°S; 25.5207°E

Below is a link containing a Bill of Quantities, Drawings and Construction Health and Safety Specification

[SCMU5-26.27-0051](#)

Queries relating to the issue of these documents may be addressed in writing to through email: supply.chain@ecdpw.gov.za. **Technical enquiries:** may be addressed in writing to **Mr. Lwazi Zulu** – email: Lwazi.Zulu@ecdpw.gov.za

The closing time for receipt of tenders by the Eastern Cape Department of Public Works and Infrastructure is **11:00am** on **29 September 2026**. Tender will be opened in public.

It is the responsibility of the tenderer/s to ensure that bid documents /proposals are submitted on or before closing time and the correct location as the department will not take responsibility of wrong delivery. Tenderers using courier services for delivery of their bid documents must ensure the delivery is at the correct place / location and time as the department will not be held responsible for wrong delivery. Not delivered to Departmental officials. The Department will not accept responsibility if bids received by officials are not timely deposited in the Bid Box.

Tenders may only be submitted on the tender documentation that is issued. Tenderers must be registered on the National Treasury Central Supplier Data Base and proof of registration must be submitted with the proposal (<https://secure.csd.gov.za>). Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

B. TENDER SUBMISSIONS:

Bids must be submitted in sealed envelopes clearly marked **“SCMU5-26/27-0051”**: **“DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL”** must be deposited in the bid box, **DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE, FRONT CORNER OF QHASANA BUILDING ON THE WAY TO CIDB OFFICES LABELLED “TENDERS”, BISHO.**



C. BID EVALUATION:

This bid will be evaluated in Three (3) phases as follows:

Phase One: Functionality will be applied as a prequalification criterion. Such criteria are used to establish minimum requirements where after bids will be evaluated solely on the bases of price and preference.

Phase Two: Compliance, responsiveness to the bid rules and conditions

Phase Three: Preferential Procurement Policy Framework Act (PPPFA), and Preferential Procurement Regulations 2022.

PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT (PPPFA) AND PREFERENTIAL PROCUREMENT REGULATIONS 2022 POINTS WILL BE AWARDED AS FOLLOWS:

Maximum points on price	-	90 points
Maximum points for Specific Goals	-	10 points
Maximum points	-	100 points

C. BID SPECIFICATIONS, CONDITIONS AND RULES

1. The minimum specifications, other bid conditions and rules are detailed in the bid document under Tender Data
2. The Department of Public Works and Infrastructure SCM policy applies.
3. Tender validity period is **120 days**.

D. ENQUIRIES WITH REGARD TO THIS ADVERT MAY BE DIRECTED TO:

SCM RELATED ENQUIRIES

Email Address: supply.chain@ecdpcw.gov.za

TECHNICAL ENQUIRIES

Mr. Lwazi Zulu

Tel No: 069 007 6129

Email Address: Lwazi.Zulu@ecdpcw.gov.za

FOR COMPLAINTS, FRAUD, & TENDER ABUSE:

Call: 0800 701 701



PART T1.2: TENDER DATA



T1.2 Tender Data

The conditions of tender are the latest edition of SANS 10845-3, *Standard conditions of tender*. SANS 10845-3 makes several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the provisions of SANS 10845-3 *and* as contained in **Annexure C of Standard for Uniformity in Construction Procurement (Board Notice 423 of 2009 Government Gazette No 42622 of August 2019)**. Each item of data given below is cross-referenced to the clause in SANS 10845-3 to which it mainly applies

Clause number	Tender Data
3.1	The Employer is Public Works and Infrastructure - Eastern Cape
3.2	The tender documents issued by the employer comprise the following documents: THE TENDER PART T1 – TENDERING PROCEDURES T1.1 TENDER NOTICE AND INVITATION TO TENDER T1.2 TENDER DATA T1.3 FUNCTIONALITY SCORING SCHEDULES PART T2 RETURNABLE DOCUMENTS T2.1 LIST OF RETURNABLE DOCUMENTS SBD 1 – PART A INVITATION TO BID SBD 1 – PART B TERMS AND CONDITIONS FOR BIDDING COMPULSORY ENTERPRISE QUESTIONNAIRE (A) SBD 4 – DECLARATION OF INTEREST SBD 6.1 – PREFERENCE POINT CLAIM PROOF OF REGISTRATION ON THE NATIONAL TREASURY CENTRAL SUPPLIER DATABASE VALID CIDB CERTIFICATE OF A TENDERER PROTECTION OF PERSONAL INFORMATION: CONSENT (POPIA) THE CONTRACT PART C1 – AGREEMENTS AND CONTRACT DATA PART C1.1 – FORM OF OFFER AND ACCEPTANCE PART C1.1 A – J PROJECT REFERENCE FORMS – 1 (K) PROJECT REFERENCE FORMS – 2 PROJECT REFERENCE FORMS – 3 PART C1.1 L – M PART C1.2 CONTRACT DATA PART C1.3 DISPUTE RESOLUTION MECHANISM C1.3 CIDB ADJUDICATOR'S AGREEMENT OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION PART C2 – PRICING DATA PART C2.1 – PRICING INSTRUCTION EPWP REQUIREMENTS AND SPECIFICATION PART C2.3 – BILLS OF QUANTITIES



	DRAWINGS / ANNEXURES PART C3 – SCOPE OF WORKS C3 – SCOPE OF WORKS PART C4 – SITE INFORMATION C4.1 – SITE INFORMATION PART C5 ANNEXURE ANNEXURE 1 – HEALTH AND SAFETY SPECIFICATION ANNEXURE 2 - BILLS OF QUANTITIES ANNEXURE 3 – SPECIFICATIONS ANNEXURE 4 - DRAWINGS
3.3	The tender documents issued by the employer comprise the documents listed on the contents page
3.4	The employer's agent is: Name: Mr. Lwazi Zulu Address: Department of Public Works & Infrastructure 55 Albany Road, Gqeberha Central, Greberha, 6000 Tel No: 069 007 6129 Email Address: Lwazi.Zulu@ecdpw.gov.za
3.5	The language for communications is English
3.6	The competitive negotiation procedure shall be applied.
3.7	Method 3: Three (3) stage procurement procedure shall be applied.
4	Tender's obligations
4.1	The following tenderers who are registered with the CIDB, or are capable of being so registered prior to the evaluation of submissions, are eligible to have their tenders evaluated: a) contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) of 25(7A) of the Construction Industry Development Regulations, for a CIDB Grade 8GB or Higher class of construction work; and Joint ventures are eligible to submit tenders provided that: - every member of the joint venture is registered with the CIDB; in GB class of works. - the lead partner has a contractor grading designation in the CIDB Grade 7GB or higher class of construction work; and - the combined contractor grading designation calculated in accordance with the Construction industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a CIDB Grade 8GB or higher class of construction work or a value determined in accordance with Regulation 25 (1B) of 25(7A) of the Construction Industry Development Regulations. 4. Joint Venture Agreement.
4.2	The employer will compensate the tender as follows JBCC Edition 6.2 of 2018 The employer will not compensate the tenderer for any costs incurred in attending interviews or making any submissions in the office of the employer.



4.3	It is the responsibility of the tenderer to check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.
4.4	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.
4.5	Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are incorporated into the tender documents by reference.
4.6	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.
4.7	The arrangements for the non-compulsory clarification meeting are as stated in the Tender Notice and Invitation to Tender. Tenderers who attended the on-site site briefing meeting are required to sign the attendance register in the name of the tendering entity. Any addendum issued following the site briefing will be distributed to the tendering entities whose names appear on the attendance register. Please note, however, that the site briefing is non-compulsory. Accordingly, tenderers who did not attend the briefing are still entitled to submit queries should they require clarification on any aspect of the bid document. All queries received from tenderers, whether or not they attended the site briefing, will be considered and responded to accordingly.
4.8	Seek clarification <i>Request clarification of the tender documents, if necessary, by notifying the employer at least 7 (Seven) working days before the closing time stated in the tender data.</i>
4.9	Tenderers are required to state the rates and currencies in Rands. Include in the rates, prices, and the tendered total of the prices (if any), all duties, taxes which the law requires to be paid [except value added tax (VAT)], and other levies payable by the successful tenderer, that are applicable 14 days before the closing time stated in the tender data. Show the VAT payable by the employer separately as an addition to the tendered total of the prices. 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. State the rates and prices in monetary value of the contract unless otherwise instructed in the tender data.
4.10	Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer or to correct errors made by the tenderer and ensure that all signatories to the tender offer initial all such alterations. Do not make erasures using masking fluid.
4.11	Main tender offers are not required to be submitted together with alternative tenders.
4.12	No alternative tender offers will be considered
4.13.1	Parts of each tender offer communicated on paper shall be submitted as an original. Submit a) the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with a translation of any documentation in a language other than the language of communication established in 3.5, and b) the parts communicated electronically by the employer of its agents on paper format with the tender.



4.13.2	Sign the original and all copies of the tender offer where required in terms of the tender data. State in the case of a joint venture which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer. NOTE The employer holds all authorized signatories liable on behalf of the tenderer.
4.13.3	A tender security in the amount of N/A is required and shall remain valid for a period not exceeding N/A days after the closing date for tender offers. The form of the tender security shall not differ substantially from the sample provided in Annex D of SANS 10845-3.
4.13.4	The employer's details and address for delivery of tender offers and identification details that are to be shown on each tender offer package are: Location of tender box: DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE, FRONT CORNER OF QHASANA BUILDING ON THE WAY TO CIDB OFFICES LABELLED "TENDERS", BISHO. Physical address: Independence Avenue, Ground Floor, Qhasana Building, Bisho 5605 Identification details: SCMU5-26/27-0051: DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL Closing time and date: 29 SEPTEMBER 2026 at 11:00am
4.13.5	The tenderer is required to submit with his tender the following certificates: 1) a copy of the CSD report showing, amongst other things, that tax matters of the service provider are in order from the South African Revenue Services. In the case of a Joint Venture/Consortium/Sub-contractors each party must submit a separate CSD report showing, amongst other things, that tax matters of the service provider are in order from the South African Revenue Services. 2) CIDB Grading certificate or CRS number.
4.13.6	A two-envelope procedure will not be required.
4.13.7	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted. The tenderer accepts that the employer does 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.
4.14	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender. 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. Proof of posting shall not be accepted as proof of delivery. Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of the standard conditions of tender in this part of SANS 10845 apply equally to the extended deadline.
4.15.1	The tender offer validity period is 120 days . 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. 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. Extend the period of the tender security, if any, to cover any agreed extension requested by the employer.
4.15.2	Placing of contractors under restrictions / withdrawal of tenders If any tenderer who has submitted a tender offer or a contractor who has concluded a contract has, as relevant: withdrawn such tender or quotation after the advertised closing date and time for the receipt of submissions; after having been notified of the acceptance of his tender, failed or refused to commence the contract; had their contract terminated for reasons within their



	control without reasonable cause; offered, promised or given a bribe in relation to the obtaining or the execution of such contract; acted in a fraudulent, collusive or anti-competitive or improper manner or in bad faith towards the Provincial Government; or, made any incorrect statement in any affidavit or declaration with regard to a preference claimed and is unable to prove to the satisfaction of the Provincial Government that the statement was made in good faith or reasonable steps were taken to confirm the correctness of the statements, such tenderer/s may be placed under restriction from tendering with the state. Procedures are outlined in the EC SCM Policy for Infrastructure procurement and Delivery Management and also on CIDB Inform Practice Note #30. Excerpts of the policy can be availed on request of any interested tenderer.
4.16	Access shall be provided for the following inspections, tests and analysis: N/A
4.17	the preferred tenderer will be required to submit an approved insurer undertaking to provide the Performance Bond / Guarantee / Surety / Security after 21 days of appointment
5	Employer's undertakings
5.1	The Employer will respond to requests for clarification received up to Seven (7) working days before the tender closing time. If, as a result of the issuing of addenda, it is necessary to extend the closing time stated in the tender data, grant such extension and notify all respondents accordingly.
5.2	The employer shall issue addenda until Ten (10) working days before tender closing time.
5.3	Tenders will be opened immediately after the closing time for tenders at 11:00am hours.
5.4	Do not disclose to tenderers, or to any 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.
5.5	Determine, after opening and before detailed evaluation, whether each tender offer that was properly received a) complies with the requirements of the standard conditions of tender in this part of SANS 10845, b) has been properly and fully completed and signed, and c) is responsive to the other requirements of the tender documents. A responsive tender is one that conforms to all the terms, conditions, and scope of work of the tender documents, without material deviation or qualification. A material deviation or qualification is one which, in the employer's opinion, would d) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the scope of work, e) significantly change the employer's or the tenderer's risks and responsibilities under the contract, or f) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified. Reject a non-responsive tender offer, and do not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.
5.6	Arithmetical errors, omission and discrepancies 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. For Vat related discrepancies, National and Provincial Treasury prescripts in relation to VAT procedures apply.



5.7.1

The financial offer will be reduced to a comparative basis using the Tender Assessment Schedule.

Table F.1: Formulae for calculating the value of A

Formula	Comparison aimed at achieving	Option 1 ^a	Option 2 ^a
1	Highest price or discount	$A = \left(1 + \frac{(P - P_m)}{P_m} \right)$	$A = P / P_m$
2	Lowest price or percentage commission / fee	$A = \left(1 - \frac{(P - P_m)}{P_m} \right)$	$A = P_m / P$
^a P_m is the comparative offer of the most favourable comparative offer. P is the comparative offer of the tender offer under consideration.			

5.7.2

The procedure for the evaluation of responsive tenders is **Method 3: Functionality, Administrative Compliance Preference**

Phase 1: Functionality eligibility of bidder to meet minimum requirements

Phase 2: Administrative requirements and Mandatory requirements

Phase 3: Price and preference (90/10 system)

1. PHASE ONE: FUNCTIONALITY ELIGIBILITY OF BIDDER TO MEET MINIMUM REQUIREMENTS

Functionality will be applied as a prequalification criterion. Such criteria are used to establish minimum requirements where after bids will be evaluated solely on the basis of price and preference.

Functionality Criteria	Sub-criteria	Weighting
Demonstrated experience (past performance) in comparable projects – Construction of Schools, hospital buildings, large scale renovations and upgrades etc.	Value of Projects	40
	Project References	10
	Construction works programme/schedule	10
Qualifications, Competency	Construction Manager	8
	Site Agent	4
	Foreman	4
	OHS	4
Experience of the key staff personal that will be available to manage the execution of the project (refer to returnable sheet T2.2.10)	Construction Manager	8
	Site Agent	4
	Foreman	4
	OHS	4
TOTAL POINTS	Minimum combined weighted points threshold must equal (60 points) for further consideration of the tender	MAX 100 POINTS



	Scoring criteria for functionality is detailed in Table A2: Indicators for scoring of functionality criteria. Minimum combined weighted point threshold must equal (60/100 points) for further consideration of the tender.
	<u>PHASE TWO: RESPONSIVENESS TO THE BID REQUIREMENTS AND RULES</u> Bidders' proposals must meet the following minimum requirements and supporting documents must be submitted with the completed bid document in a sealed envelope in the bid box at the closing date and time. Failure to comply will automatically eliminate the bid for further consideration: 1. Bid Document (This Document must be submitted in its original format) 2. Bids which are late, incomplete, unsigned or submitted by facsimile or electronically, will not be accepted. 3. Bidder must be registered with CIDB in the correct grading and class of works as per the tender notice and requirements. The status on CIDB must be active. It is the responsibility of the bidder to keep the status on CIDB active throughout bidding process (advert till award stage). 4. Bidders must be a legal entity or partnership or consortia. 5. Form of offer and Acceptance (fully completed and signed). 6. SBD 4- Declaration of Interest (fully completed and signed). SBD4 must be duly completed and signed. Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract, such interest must be disclosed on question 2.4.1. 7. Incomplete or unsigned or poorly completed forms SBD 4 will lead to a bidder being declared non-responsive. 8. Compulsory Enterprise Questionnaire (Completed and signed) (JV partners must complete separate Questionnaire forms and submit). 9. If the offer is "Vat Inclusive", the VAT registration number of service provider must be indicated and if a service provider is not a VAT Vendor but include VAT in its prices, the successful service provider will be given 21 days to register as a VAT Vendor with SARS, after the issuing of an appointment letter. If a bidder is a VAT vendor/registered, the bidder is required to explicitly state the VAT amount. VAT vendors must include VAT at 15% in the bid offer(s). 10. If the Bid Sum (amount in words) differ from the Bid Sum (amount in figures), the Bid Sum (amount in words) will govern. 11. Resolution to Sign (must be completed, if applicable). 12. Declaration of Employees of the State or other State Institutions. 13. Only one offer per bidder is allowed and alternative offers will not be considered. If more than one offer is received, none of the offers will be considered. This tender will be awarded as a whole. All trades listed in the Bills of Quantities or Pricing schedule must be priced for (except provisional sums and allowances), failure to do so will result increase commercial risk of the bid and may lead to elimination or passing over of the bidder. 14. Attendance of compulsory briefing meeting is not applicable to this bid; the briefing is confirmed as a non-compulsory. 15. In the case of a joint venture, a signed JV Agreement with percentages for all parties must be submitted failing which the bidder will be eliminated.



Other Conditions of bid (Non eliminating unless expressly mentioned in the document):

1. The bidder must be registered on the Central Supplier Database (CSD) prior the award
2. All bidders' tax matters must be in order prior to award. Bidders' tax matters will be verified through CSD. In cases where the bidder's status is found non-compliant, the bidder will be granted 7 working days to correct the status. **A bidder that fails to rectify its tax matters with SARS will be declared non-responsive.**
3. The bidder has duly completed and signed the **SBD 1**, and **SBD 6.1**.
4. Bidders need to complete and sign **SBD 6.1** to claim points for specific goals. **Failure will lead to the non-awarding of points for specific goals.**
5. Bidders must submit a minimum of three (3) written contactable references for projects successfully completed in the past (clearly indicating client name, contract value, contract term, and contact person, contact details). Refer to Annexure I and Annexure M. This is not an elimination factor, but important for the department to make a decision. Unless it is used for Quality/functionality Points.
6. Bidders must submit a list of projects where he or she has submitted tender offers but tender results have not been confirmed by the client. Refer to Annexure L. This is not an elimination factor, but important for the department to make a decision. Unless it is used for Quality/functionality Points.
7. Bidders must submit their company profiles, list of available resources, plant and machinery, and any other additional capacity with the bid. Refer to Annexures K and H. This is not an elimination factor, but important for the department to make a decision. Unless it is used for Quality/functionality Points.
8. The bidder must also list all projects where there are pending litigations or litigations that have been concluded. The form for this is also attached after Annexure J.
9. The Department will contract with the successful bidder by signing a formal contract.
10. This tender will be awarded as a whole. All trades listed in the Bills of Quantities or Pricing schedule must be priced for (except provisional sums and allowances which also need to be added to the total), failure to do so will increase the commercial risk of the bid and may lead to elimination or passing over of the bidder.
11. Wherever a brand name is specified in this document (i.e. specifications, pricing schedule, bill of quantities or anywhere), the department requires an item similar/equivalent or better.
12. DPWI Policy applies.
13. Protection of personal information: Consent (POPIA).
14. The successful tenderer (after being informed) will be required to bring along an unsigned copy of the form of contract to be signed by parties (e.g. JBCC Edition 6.2 of 2018).
15. EPWP policy will be applicable.
16. 30% of subcontracting is to be allocated to SMMEs, which consists of 25% local SMMEs and 5% ICDP contractors in that region.
17. For Fire Protection and Fire Detection, the following requirements are mandatory and shall be provided by the appointed subcontractor:
 - CV of the Fire Detection Technician
 - CV of the Assistant Fire Detection Technician
 - Provide proof of company certification affiliated with SAQCC (Fire and Gas).
 - SAQCC fire protection installation certificate
 - COIDA
 - Conform to SAQCC standards.



18. For LPG Installation, the following requirements are mandatory and shall be provided by the appointed subcontractor:

- CV of the Technician
- CV of the Assistant Technician
- Conform to SAQCC standards
- Provide proof of certification from the Gas Inspector affiliated with SAQCC (domestic and commercial)
- COIDA

19. For Electronic System, the following requirements are mandatory and shall be provided by the appointed subcontractor:

- Certified copy, not older than 3 months of company registration certificate (**CRC**) reflecting active members (Except for Sole traders and partnerships) must be attached
- Share certificate
- CV's of experienced technical staff
- CVs of experienced technical staff (Experience of the Contracts Manager, Experience of the Certified Network Technician/Engineer Provide current, certified copy of the qualification
- NQF level 6 Diploma electronic, computer science, computer engineering, information technology Certification for; PSIRA-accredited
- CompTia Network CompTia Security CCNP, A+ 220-1101 and 220-1102 in-progress, Network + , Security + , Microsoft Azure Fundamental, Microsoft Azure Administrator Associate, Molex Certified (Network), Krone Certified (Network), FOA Fiber Optics Certified
- COIDA certificate/workman compensation/letter of good standing
- Authority for signatory - attach resolution in case of more than one director
- Provide a reference letter on letterhead for completed works of 3 or more combined Electronic and Security Systems Installations ≥ R3 million (incl. VAT) in the last ten (10) years

20. For Electrical System, the following requirements are mandatory and shall be provided by the appointed subcontractor

- Certified copy, not older than 3 months of company registration certificate (**CRC**) reflecting active members (Except for Sole traders and partnerships) must be attached
- Share certificate
- CVs of experienced technical staff (Experience of the Contracts Manager, Qualifications of the Certified Network Engineer Provide current, certified copy of the qualification - NQF level 6 Diploma electrical, HV/MV/LV Switch gear operating, Safety, Management and Operation. Fundamentals of medium voltage protection, SANS 10143-1 (Edition 3), High Voltage Measurement and Testing,
- CV of supervisor, Electrical trade with a wireman's license to issue COC (min. 3 years)
- COIDA certificate / workman compensation / letter of good standing
- Authority for signatory - attach resolution in case of more than one director
- Provide a reference letter on letterhead for completed works of 3 or more combined Electrical Bulk Systems and General Electrical Installations ≥ R6 million (incl. VAT) in the last ten (10) years



	21. For Photovoltaic (PV Solar) Systems, the following requirements are mandatory and shall be provided by the appointed subcontractor • Certified copy, not older than 3 months of company registration certificate (CRC) reflecting active members (Except for Sole traders and partnerships) must be attached. • CV of installer (qualified electrician, with a wireman's and pv green card) min 3 years experience • Share certificate • CV's of experienced technical staff (Experience of the Contracts Manager, • Qualifications of the Certified Network Engineer Provide current, PV Green card, PV installer specialist certificates, • COIDA certificate / workman compensation / letter of good standing • Authority for signatory - attach resolution in case of more than one director • Provide a reference letter on letterhead for completed works of 3 or more combined Photovoltaic System Installations $\geq$ R1 million (incl. VAT) in the last ten (10) years								
	<u>PHASE THREE: EVALUATION POINTS ON PRICE AND SPECIFIC GOALS</u> The 90/10 preference point system shall be applied for the purposes of this bid as per the requirements of the <i>Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000)</i> and Specific Goals/Preferential Procurement Regulations 2022 <table border="1"> <thead> <tr> <th>Criteria</th><th>Points</th></tr> </thead> <tbody> <tr> <td>POINTS ON PRICE</td><td>90</td></tr> <tr> <td>SPECIFIC GOALS</td><td>10</td></tr> <tr> <td>TOTAL</td><td>100</td></tr> </tbody> </table> The 90/10 preference point system for acquisition of services, works or goods exceeding Rand value of R50 million: (a) The following formula must be used to calculate the points for price in respect of tenders (including price quotation) with a Rand value equal to, or above R 30 000 and up to Rand value of R 50 000 000 (all applicable taxes included): The financial offer will be scored using the following formula: $A = (1 - \frac{(P - P_m)}{P_m})$ The value of value of W_1 is: 1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R50 000 000	Criteria	Points	POINTS ON PRICE	90	SPECIFIC GOALS	10	TOTAL	100
Criteria	Points								
POINTS ON PRICE	90								
SPECIFIC GOALS	10								
TOTAL	100								
5.7.3	The procedure for the evaluation of responsive tenders is Method 3 (Functionality, Administrative Compliance, price and preference)								
5.7.4	The quality criteria and maximum score in respect of each of the criteria are as follows: N/A								
5.7.5	Each evaluation criteria will be assessed in terms of Functionality – YES								
5.7.6	The prompts for judgment and the associated scores used in the evaluation of quality shall be as follows: N/A								



5.8	Tender offers will only be accepted if: a) the tenderer is registered on the Central Supplier Database (CSD) for the South African government (see https://secure.csd.gov.za/) unless it is a foreign supplier with no local registered entity b) the tenderer is in good standing with SARS according to the Central Supplier Database. Bidders must submit a CSD no. or tax status compliance pin. c) the preferred tenderer will be required to submit an approved insurer undertaking to provide the Performance Bond / Guarantee / Surety / Security to the format and/or standard within 21 days after the appointment. d) the tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation; e) the tenderer 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. f) the tenderer has not: i) abused the Employer's Supply Chain Management System; or ii) failed to perform on any previous contract and has been given a written notice to this effect. g) the tenderer has completed the Compulsory Declaration and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.
	h) the tenderer has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest that may impact the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process and persons in the employ of the state are permitted to submit tenders or participate in the contract; i) the tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer; j) The tenderer undertakes to maximize the sourcing of building material or infrastructure input material from Eastern Cape based suppliers or manufacturers. k) the employer is reasonably satisfied that the tenderer has in terms of the Construction Regulations, 2014, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely. l) the tender has offered a market-related. If the offer is believed not to be market related, the department through its Supply Chain Management bid committees will attempt to negotiate the offer with identified bidder/s to a reasonable amount. Bidders are not allowed to increase their tender offers during this process. m) A Resolution of signatory form has been completed and signed by director/s or a letter bearing a letterhead of the tenderer has been attached (specific to this bid) to the bid submission; it must be duly signed by all directors and submitted the bid. Only a duly authorized official can sign the bid. n) NOTE: The amount reflected on the Form of Offer and Acceptance takes precedence over any other total amount indicated elsewhere in bidder's tender submission. If the Form of Offer and Acceptance has no value or figure, the bidder will be regarded as having made no offer. o) The department reserves the right not to award the bid to the most favourable tenderer, if any of the situations occur: if it is not assisting in the advancement of designated groups; risk



	profile of the favourable firm is too high; the bidder has been awarded a considerable number of projects by the department or provincial government; has performed unsatisfactorily in the past, etc.
5.9	The number of paper copies of the signed contract to be provided by the employer is 1.
	The additional conditions of tender are: Wherever a brand name is specified in this document (i.e., specifications, pricing schedule, bill of quantities or anywhere), the department requires an item similar/equivalent or better.
T.2.1	A. List of returnable documents
1	Documentation to demonstrate eligibility to have tenders evaluated i.e. List all documentation to demonstrate eligibility to have a submission evaluated. Appropriate CIDB grading suitable for the works (as stated in 4.1).
2	Returnable Schedules required for tender evaluation purposes The tenderer must fully and appropriately complete and sign the following returnable schedules as relevant: - Record of Addenda to Tender Documents - Proposed amendments and qualifications - Compulsory Enterprise Questionnaire (In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted). - SBD 1, 4, 6.1 - Protection of personal content: Consent - Form of Offer and Acceptance - Complete priced Bills of Quantities, including Final Summary
3	Other documents required for tender evaluation purposes The tenderer must provide the following returnable documents: - A CSD Report for a contractor with valid and correct information. - A letter of good standing from the Compensation Fund or a licensed insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act 1993 (Act No. 130 of 1993)
4	Returnable Schedules that will be used for tender evaluation purposes and be incorporated into the contract The tenderer must complete the following returnable documents: A duly completed form of Offer and Acceptance (and any revision of prices if there are any).
5	Only authorized signatories may sign the original and all copies of the tender offer where required. - In the case of a ONE-PERSON CONCERN submitting a tender, this shall be clearly stated. - In the case of a COMPANY submitting a tender, include a copy of a resolution by its board of directors authorizing a director or other official of the company to sign the documents on behalf of the company. - In the case of a CLOSE CORPORATION submitting a tender, include a copy of a resolution by its members authorizing a member or other official of the corporation to sign the documents on each member's behalf.



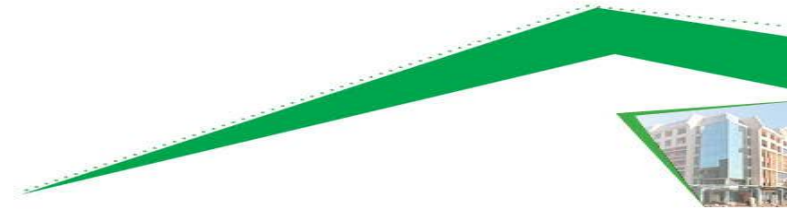
	- In the case of a PARTNERSHIP submitting a tender, all the partners shall sign the documents, unless one partner or a group of partners has been authorized to sign on behalf of each partner, in which case proof of such authorization shall be included in the Tender. - In the case of a JOINT VENTURE/CONSORTIUM submitting a tender, include a resolution of each company of the joint venture together with a resolution by its members authorizing a member of the joint venture to sign the documents on behalf of the joint venture. <u>Accept that failure to submit proof of authorization to sign the tender shall result in the tender offer being regarded as non-responsive.</u>
6	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 nonresponsive.
7	Canvassing and obtaining of additional information by tenderers The Tenderer shall not make any attempt either directly or indirectly to canvass any of the Employer's officials or the Employer's agent in respect of his tender, after the opening of the tenders but prior to the Employer arriving at a decision thereon. The Tenderer shall not make any attempt to obtain particulars of any relevant information, other than that disclosed at the opening of tenders.
8	Prohibitions on awards to persons in service of the state The Employer is prohibited to award a tender to a person - - who is in the service of the state; or - if that person is not a natural person, of which any director, manager, principal shareholder or stakeholder is a person in the service of the state; or - a person who is an advisor or consultant contracted with the Department or municipal entity. In the service of the state means to be - - a member of:- - any municipal council; - any provincial legislature; or - the National Assembly or the National Council of Provinces; - a member of the board of directors of any municipal entity; - an official of any Department or municipal entity; - an employee of any national or provincial department; - provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999); - a member of the accounting authority of any national or provincial public entity; or - an employee of Parliament or a provincial legislature. In order to give effect to the above, the questionnaire for the declaration of interests in the tender of persons in service of state in part T2 of this procurement document must be completed.
9	Awards to close family members of persons in the service of the state Accept that the notes to the Employer's annual financial statements must disclose particulars of any award of more than R2000 to a person who is a spouse, child, or parent of a person in the



	service of the state (defined in clause 8 above), or has been in the service of the state in the previous twelve months, including - a) the name of that person; b) the capacity in which that person is in the service of the state; and c) the amount of the award. In order to give effect to the above, the questionnaire for the declaration of interests in the tender of persons in service of state in part T2 of this procurement document must be completed.
10	Respond to requests from the tenderer The employer will respond to requests for clarification up to 7 (seven) working days before the tender closing time.
11	Opening of tender submissions Tenders will be opened immediately after the closing time for tenders
12	Scoring quality / functionality: Scoring 60% and more will be evaluated further.
13	Cancellation and re-invitation of tenders An organ of state may, prior to the award of the tender, cancel the tender if- (a) due to changed circumstances, there is no longer a need for the services, works or goods requested; or (b) funds are no longer available to cover the total envisaged expenditure; or (c) no acceptable tenders are received. (d) Tender validity period has expired. (e) Gross irregularities in the tender processes and/or tender documents. (f) No market related offer received (after attempts of negotiation processes) Where applicable, the decision to cancel the tender will be published in the CIDB website and in the Tender Bulletin or the media in which the original tender invitation as advertised.
14	Dispute resolution mechanism will be done through the Adjudication route.
15	The department must when be acting against the tenderer or person awarded the contract on a fraudulent basis, considers the provisions of Regulation 14: The remedies provided for in Preferential Procurement Regulations 2022 do not prevent an institution from instituting remedies arising from any other prescripts or contract.
16	Where the employer terminates the contract due to default of the contractor in whole or in part, the employer may decide to: a) Refer the breach in contract to the CIDB for investigation as a breach of the CIDB Code of Conduct in terms of the CIDB Regulations; or b) may impose a restriction penalty on the contractor in terms of Section 14 of the Preferential Procurement Regulations. The outcomes of such investigations in terms of both the CIDB Regulations and the Preferential Procurement Regulations may prohibit the contractor from doing business with the public sector for a period not exceeding 10 years.



PART T1.3: FUNCTIONALITY SCORING SCHEDULES



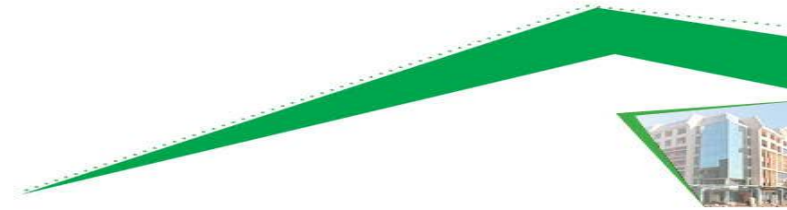
T 1.3: FUNCTIONALITY SCORING SCHEDULES

Table A1: FUNCTIONALITY CRITERIA SCORE

Functionality Criteria	Sub-criteria		Requirements from Tenderers
	Description	Max Points	
Demonstrated experience (past performance) in comparable projects – Construction of schools/hospital / clinic / office buildings, renovations and upgrades etc.	Value of Projects – 3	40	This criterion covers the experience and knowledge that the Tenderer has with working on other construction projects that are comparable in terms of complexity, size, value and construction durations. Tenderers are to provide details on Building infrastructure projects with the highest value that have been completed (or awarded) in the past 5 years. Tenderers MUST provide company profiles. Decision points and the sequencing and timing of activities are very well defined indicating the bidders has optimized the use of resources including procurement, subcontractor and long lead item ordering activities. Tenderers MUST have Project Reference Forms (Form K) from the previous employer or consultants that they have worked with or are currently working with. Details of three (3) contactable references for each project listed are to be included. For a Project Reference to be valid, a minimum score of 20 points is required. Points will only be awarded for 3 valid project references. The value of projects will be determined from the Project Reference Forms.
	Project References -How many projects	10	
	Construction works programme/schedule	10	
Qualifications, competency	Contracts Manager	8	The Tenderers are to provide information that covers the level of qualifications, competency (specific to the Contracts Manager, Site agent, Forman and OHS). Construction OHS officer to be fully registered with SACPCMP. Please provide copies of qualifications
	Site Agent	4	
	Foreman	4	
	Construction OHS Officer	4	
Experience of the key staff personal that will be available to manage the execution of the project (refer to returnable sheet T2.2.10)	Contracts Manager	8	The Tenderers are to provide information that covers the level of experience, and the positions held of the key staff /(specific to the Contracts Manager, Site agent, Forman and OHS). Construction OHS officer to be fully registered with SACPCMP. Please provide copies of CV's
	Site Agent	4	
	Foreman	4	
	Construction OHS Officer	4	



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TOTAL POINTS	Minimum combined weighted point threshold must equal (60 points) for further consideration of the tender	MAX 100 POINTS	
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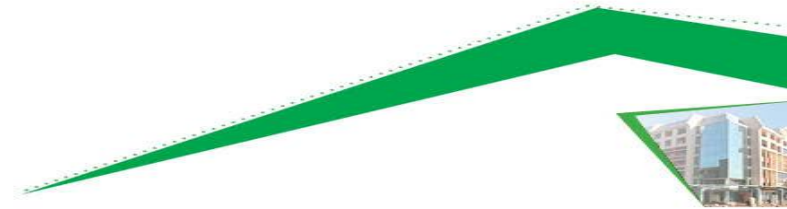
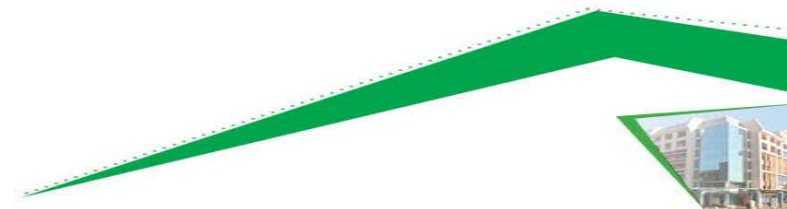
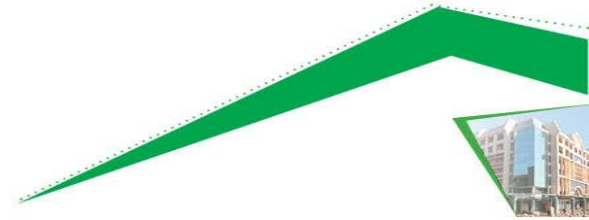


Table A2: INDICATORS FOR THE SCORING OF FUNCTIONALITY CRITERIA

#	Functionality Criteria	No response (score 0 Points)	Evaluation Indicators			
			Poor – 25 %	Satisfactory – 50 %	Good - 75 %	Very Good - 100 %
1.1	Demonstrated experience (past performance) in comparable projects – Construction of school / hospital / clinic / office buildings, renovations and upgrades etc. - Project References					Points will only be awarded for 3 valid project references. For a Project Reference (Form K) to be considered, it must have a minimum score of 20 points
1.2	Demonstrated experience (past performance) in comparable projects – Construction of schools/hospital / clinic / office buildings, renovations and upgrades etc. - Value of Project		Value of a single project completed in the last 5yrs, not greater than R50m. This is determined from a valid project reference (Form K)	Value of a single project completed in the last 5yrs, greater than R50m and not greater than R75m. This is determined from a valid project reference (Form K)	Value of a single project completed in the last 5yrs, greater than R75m and not greater than R100m. This is determined from a valid project reference (Form K)	Value of a single project completed in the last 5yrs, greater than R100m. This is determined from a valid project reference (Form K)



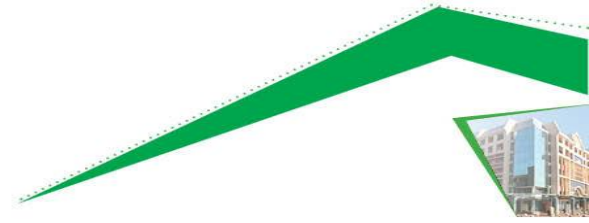
2.1	Qualifications of the key staff / personnel who will be available to manage the execution of the project. Note that these scores will be applied to each required individual before application of the weighting fact	Construction Manager		NQF Level 6 certificate provided in the built environment	NQF Level 6 certificate in the built environment	NQF Level 7 qualification in the built environment	An NQF Level 8 qualification in the built environment & Professional registration in the Built environment
		Site Agent		Short Courses in the construction sector – Certificate of Attendance	NQF Level 5 certificate provided in the Built Environment.	NQF Level 6 qualification in the built environment.	NQF Level 7 qualification in the Built Environment.
		Foreman		Artisan/construction sector certificates	An NQF Level 6 Qualification in the built environment.	An NQF Level 6 qualification in the built environment AND short course certificate on social / community development	An NQF Level 7 qualification in the built environment with AND short course certificate on Management
		Construction OHS officer					Points are only awarded for a Construction OHS Officer, fully registered with SACPCMP
2.2	Experience of the key staff personal that will be available to manage the execution of the project	Construction Manager		Less than 5 years' experience in construction contract management.	Five years or more, but less than 10 years' experience in construction contract management.	Ten years or more but less than 15 years' experience in construction contract management.	Fifteen or more years' experience in construction contract management
		Site Agent		Less than 5 years' experience on construction sites.	Five years or more, but less than 10 years' experience on construction sites	Ten years or more, but less than 15 years' experience on construction sites	Fifteen or more years' experience on construction sites
		Foreman		Less than 5 years' experience on construction sites.	Five years or more, but less than 10 years' experience on construction sites	Ten years or more, but less than 15 years' experience on construction sites	Fifteen or more years' experience on construction sites
		Construction OHS officer		Less than 5 years' experience on construction sites.	Five years or more, but less than 10 years' experience on construction sites	Ten years or more, but less than 15 years' experience on construction sites	Fifteen or more years' experience on construction sites



The Functional Criteria Score allocation is fully described in **Table A1** (attached **Annexure A**), and the coring indicators for functionality scoring is detailed in **Table A2**.

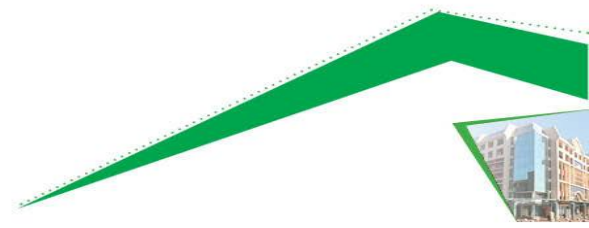
The description of each of the functionality criteria is described in detail and comments/documentation/description on the information that is required from the Tenderers is listed. A Minimum combined weighted point threshold must equal **(60 points)** for further consideration of the tender.

The total score is **100 points**.

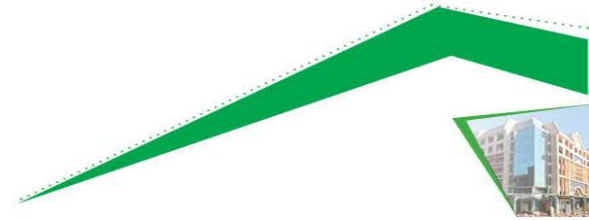


PART T2

RETURNABLE DOCUMENTS



PART T2.1: LIST OF RETURNABLE DOCUMENTS



T2.1 List of Returnable Documents

The tenderer must complete the following returnable documents:

1 Returnable Schedules required for bid evaluation purposes

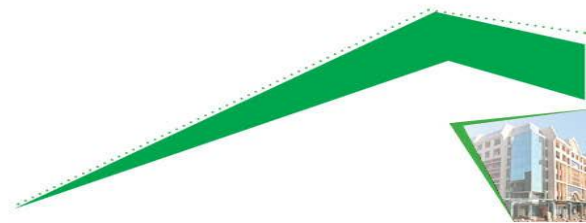
- Compulsory enterprise questionnaire (In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted).
- Record of addenda issued (Only if addenda is issued)
- Certificate of authority for joint ventures (Only where the tender/ quotation is submitted by a joint venture)

2 Other documents required for bid evaluation purposes

- Form of Offer and Acceptance
- Complete Priced Bills of Quantities & Final Summary

3 Returnable Schedules that will be incorporated into the contract

- Details of the Project Team and CV with Qualifications & Proof of Registration completed for each individual of proposed
- Schedule of Plant and Equipment
- Record of projects: current, past and on tender.
- Project References – at least 3
- SBD 1, 4, 6.1
- Protection of personal content: Consent



PART A

SBD 1

INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

BID NUMBER:	SCMU5-26/27-0051	CLOSING DATE:	29 SEPTEMBER 2026	CLOSING TIME:	11:00am
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DESCRIPTION:	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
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BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT
DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE, FRONT CORNER OF QHASANA BUILDING ON THE WAY TO CIDB OFFICES LABELLED “TENDERS”, BHISHO.

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO	TECHNICAL ENQUIRIES MAY BE DIRECTED TO:
---	--

CONTACT PERSON		CONTACT PERSON	Mr. Lwazi Zulu
----------------	--	----------------	-----------------------

TELEPHONE NUMBER		TELEPHONE NUMBER	069 007 6129
------------------	--	------------------	---------------------

FACSIMILE NUMBER		FACSIMILE NUMBER	
------------------	--	------------------	--

E-MAIL ADDRESS	supply.chain@ecdpw.gov.za	E-MAIL ADDRESS	Lwazi.Zulu@ecdpw.gov.za
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SUPPLIER INFORMATION

NAME OF BIDDER			
----------------	--	--	--

POSTAL ADDRESS			
----------------	--	--	--

STREET ADDRESS			
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TELEPHONE NUMBER	CODE		NUMBER	
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CELLPHONE NUMBER				
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FACSIMILE NUMBER	CODE		NUMBER	
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E-MAIL ADDRESS				
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VAT REGISTRATION NUMBER				
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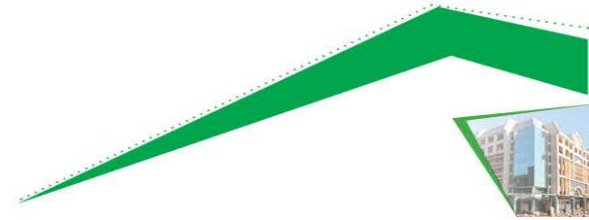
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
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ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES, COMPLETE QUESTIONNAIRE BELOW]
---	---	--	--

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	☐ YES ☐ NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	☐ YES ☐ NO

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



PART B

TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

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

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS 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."

SIGNATURE OF BIDDER:

.....

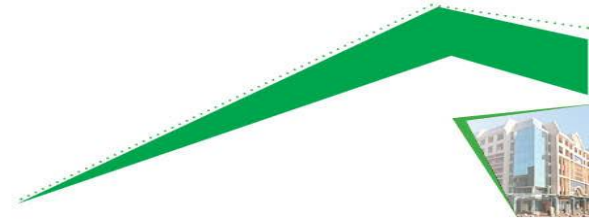
CAPACITY UNDER WHICH THIS BID IS SIGNED:

.....

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

DATE:

.....



Compulsory Enterprise Questionnaire

A

Compulsory Enterprise questionnaire

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: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

** Complete only if sole proprietor or partnership and attach separate page if more than 3 partners*

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: The attached SBD 4 must be completed for each tender and be attached as a tender requirement.

Section 7: The attached SBD 6.1 must be completed for each tender and be attached as a requirement.

The undersigned, who warrants that he / she is duly authorized to do so on behalf of the enterprise:

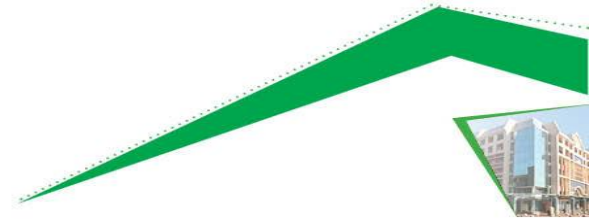
- authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may 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;
- confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- 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



SBD 4

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

- 1.1 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, 1996 (Constitution), and further expressed in the various applicable legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.
- 1.2 If a person is listed in the Register for Tender Defaulters and/or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

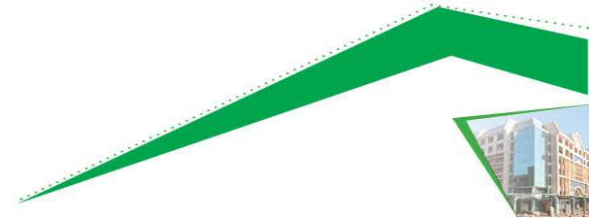
2. DECLARATION ON EMPLOYMENT BY ORGAN OF STATE

- 2.1 Is the bidder, or any of the directors / trustees / shareholders / members / partners of the bidder employed by an organ of state, as defined in section 239 of the Constitution? **YES/NO**
- 2.2 If YES, furnish particulars of the names, individual identity numbers, in the table below:

Full Name	Identity Number	Name of organ of state

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

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



2.3.1 If so, furnish particulars:

.....
.....
.....

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

2.4.1 If so, indicate all companies registered in the CSD in the table below:

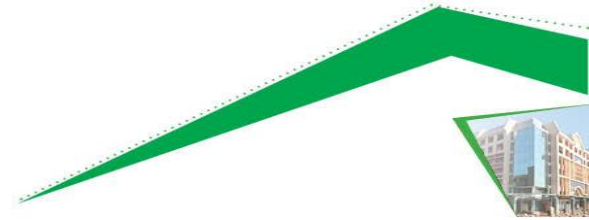
Supplier registration number (MAAA)	Status (active/inactive/deleted)

Failure to disclose all CSD-registered active companies linked to all Directors will lead to disqualification.

3 GENERAL DECLARATION

I,, the undersigned, 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 to be false.
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor.
- 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 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, 1998 (Act No. 89 of 1998) and or may be referred to law enforcement agencies for criminal investigation and or may be restricted from conducting business with the state for a period not exceeding 10 years in terms of the Prevention and Combating of Corrupt Activities Act, 2004 (Act No. 12 of 2004) or any other applicable legislation.

I CERTIFY THAT THE ABOVE IS CORRECT.

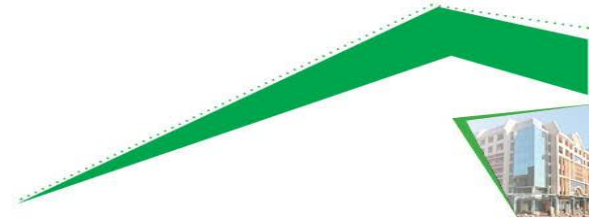
I ACCEPT THAT THE PROCURING INSTITUTION MAY REJECT THE BID OR TAKE
APPROPRIATE ACTION AGAINST ME IF THIS DECLARATION IS FALSE.

.....
Signature

.....
Date

.....
Designation

.....
Name of bidder



SBD 6.1

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 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

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) The lowest 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.

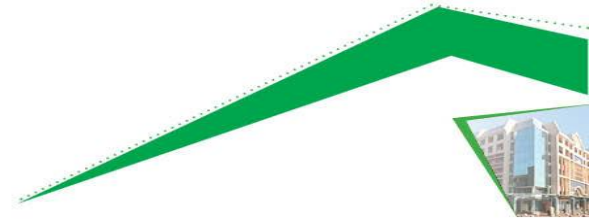
1.4 To be completed by the organ of state:

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. FORMULA 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 90 points is allocated for price on the following basis:

90/10

$$Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where

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

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

3.2.1. POINTS AWARDED FOR PRICE

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

90/10

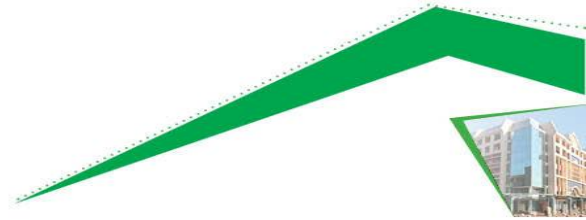
$$Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

Where

Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmax = 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,

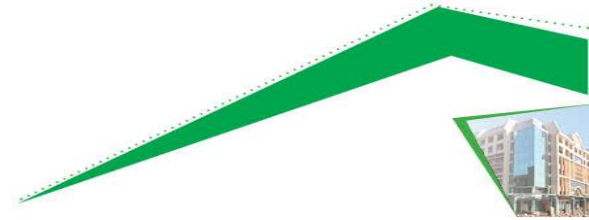
then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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 claimed (90/10 system) (To be completed by the tenderer)
Historically Disadvantaged Individual:-			
	(a) 100% black ownership	2	
	(b) 51% to 99% black ownership	1	
	(c) Less than 51% black ownership	0	
Black women ownership:-			
	(a) 100% black women ownership	2	
	(b) 30% to 99% black women ownership	1	
	(c) Less than 30% black women ownership	0	
Locality			
	(a) Within the Eastern Cape	4	
	(b) Outside the Eastern Cape	0	
Black youth ownership:-			
	(a) 100% black youth ownership	2	
	(b) 30% to 99% black youth ownership	1	
	(c) Less than 30% black youth ownership	0	



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:

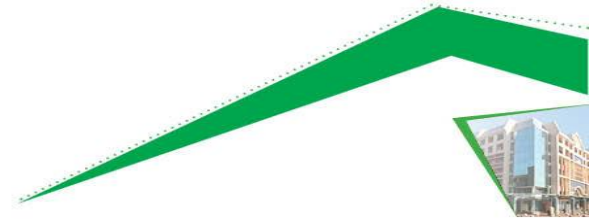
- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor 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:

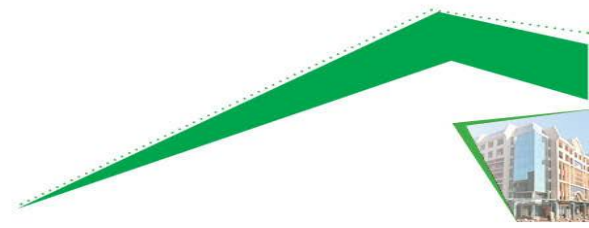
DATE:

ADDRESS:

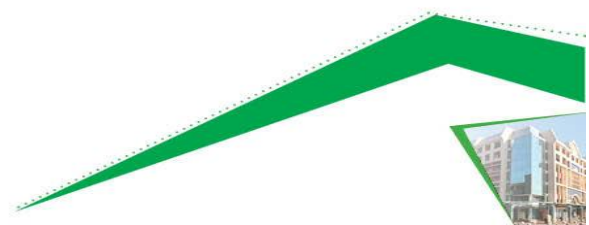


PROOF OF REGISTRATION ON THE NATIONAL TREASURY CENTRAL SUPPLIER DATABASE

(ATTACH HERE)



VALID COPY CIDB CERTIFICATE
(ATTACH HERE)



PROTECTION OF PERSONAL INFORMATION: CONSENT (POPIA)

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

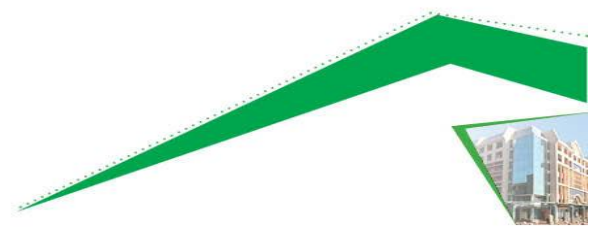
As part of its business activities, the Department of Public Works and Infrastructure obtains and requires access to personal data from a wide range of internal and external parties, including without limitation bidders who respond to requests for proposals that are published by the Department of Public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

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

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

AGREEMENT

1. The Department of Public Works and Infrastructure and the Bidder (the Parties) agree and undertake that upon obtaining and having access to personal information relating to either of them, they shall always ensure that:
 - a) They process the information only for the express purpose for which it was obtained.
 - b) Information is provided only to designated and authorized personnel who require the personal information to carry out the Parties' respective obligations in terms of the Procurement processes.
 - c) They will introduce and implement all reasonable measures ensure the protection of all personal information from unauthorized access and/or use.
 - d) They have taken appropriate measures to safeguard the security, integrity, and authenticity of all personal information in its possession or under its control.
 - e) The Parties agree that if personal information will be processed for any other purpose other than the one for which the accessing of the information was intended, explicit written consent will be obtained prior to the execution of such reason.
 - f) The Parties shall carry out regular assessments to identify all reasonably foreseeable internal and external risks to the interception of personal information in its possession or under its control and shall implement and maintain appropriate controls in mitigation of such risks.
2. The Parties agree that they will promptly return or destroy any personal data in their possession or control which belongs to the other Party once it no longer serves the purpose for which it was collected, subject



to any legal retention requirements. The information will be destroyed in such a manner that it cannot be reconstructed to its original form, linking it to any individual or organization.

3. Bidder's Obligations

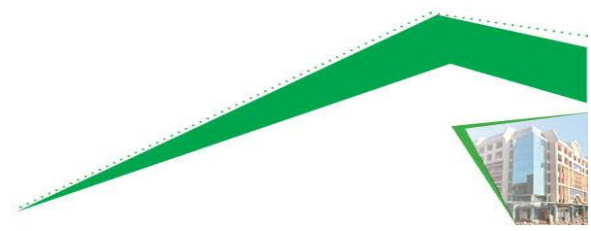
- a) The Bidder is required to notify the Information Officer of Department of Public Works and Infrastructure, in writing as soon as possible after it becomes aware of or suspects any loss, unauthorized access or unlawful use of any of the Department of Public Works and Infrastructure's personal information.
- b) The Bidder shall, at its own cost, promptly and without delay take all necessary steps to mitigate the extent of the loss or compromise of personal data.
- c) The Bidder shall be required to provide the Department of Public Works and Infrastructure with details of the persons affected by the compromise and the nature and extent of the compromise, including details of the identity (if known) of the unauthorized person who may have accessed or acquired the personal data.
- d) The Bidder undertakes to co-operate with any investigation relating to security breach which is carried out by or on behalf of Department of Public Works and Infrastructure.

On behalf of the Bidder:

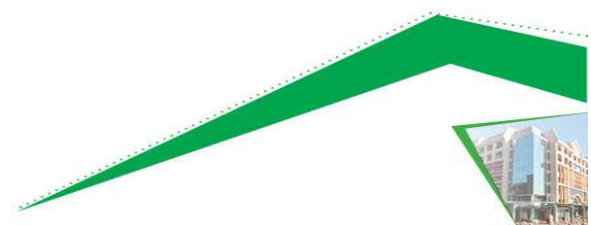
..... Signature	 Date
..... Position	 Name of the Bidder

On behalf of the Client:

..... Signature	 Date
..... Position	 Name of Client Representative

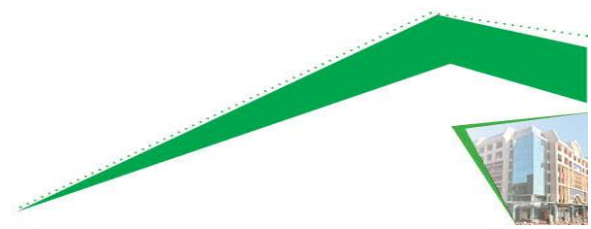


THE CONTRACT

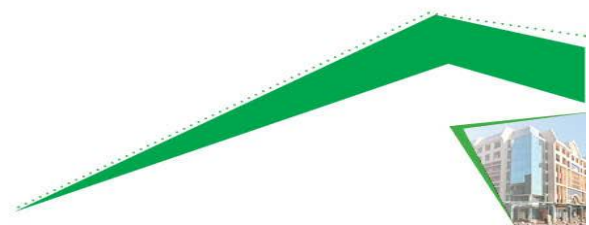


PART C1

AGREEMENTS AND CONTRACT DATA



PART C1.1: FORM OF OFFER AND ACCEPTANCE



C1.1- Form of Offer and Acceptance

Annex C (normative)

FORM OF OFFER AND ACCEPTANCE

Project title	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
SCMU number	SCMU5-26/27-0051

OFFER

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of: **DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL**

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

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

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

.....

 Rand (in words) ;
 R (in figures) (or
 other suitable wording)

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

Signature

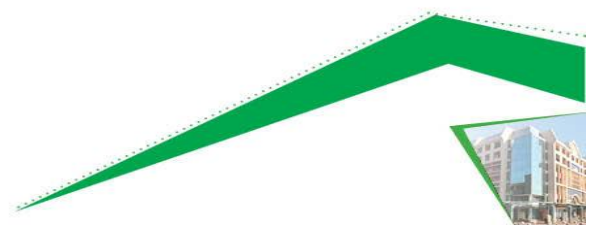
Name

Capacity

for the tenderer

(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 tenderer's offer. In consideration thereof, the employer shall pay the contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the tenderer's offer shall form an agreement between the employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement. The terms of the contract, are contained in:

- Part C1 Agreements and contract data, (which includes this agreement)
- Part C2 Pricing data
- Part C3 Scope of work.
- Part C4 Site information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the tender 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 tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this form of offer and acceptance. No amendments to or deviations from said documents are valid unless contained in this schedule.

The tenderer shall within 3 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 tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five working days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.¹

Signature

.....

Name

.....

Capacity

.....

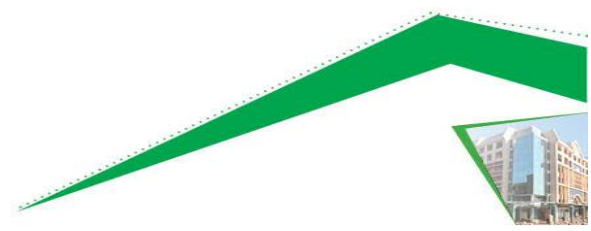
for the Employer

.....

(Name and address of organization)

Name and signature

of witness Date



Schedule of Deviations

1 Subject _____
Details _____

2 Subject _____
Details _____

3 Subject _____
Details _____

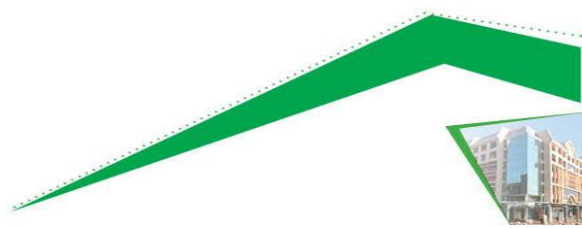
4 Subject _____
Details _____

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

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

¹ As an alternative, the following wording may be used:

Notwithstanding anything contained herein, this agreement comes into effect two working days after the submission by the employer of one fully completed original copy of this document including the schedule of deviations (if any), to a courier-to-counter delivery / counter-to-counter delivery / door-to-counter delivery /door-to-door delivery /courier service (delete that which is not applicable), provided that the employer notifies the tenderer of the tracking number within 24 hours of such submission. Unless the tenderer (now contractor) within seven working days of the date of such submission 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



A

RECORD OF ADDENDA TO BID DOCUMENTS

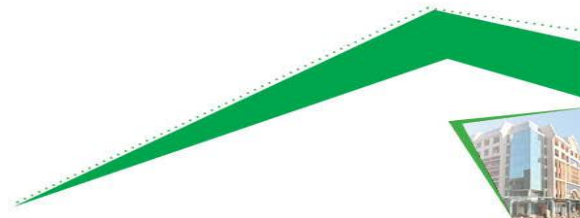
PROJECT TITLE	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL		
SCMU NUMBER	SCMU5-26/27-0051		
I / We confirm that the following communications received from the Department of Public Works before the submission of this tender offer, amending the tender documents, have been taken into account in this bid offer: (Attach additional pages if more space is required)			
Item	Date	Title or Details	No. of Pages
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Attach additional pages if more space is required.

Signed _____ Date _____

Name _____ Position _____

Tenderer _____



B

PROPOSED AMENDMENTS AND QUALIFICATIONS

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a tenderer may state such deviations and qualifications in a covering letter to his tender and reference such letter in this schedule.

The Tenderer's attention is drawn to clause 5.8 of SANS 10845-3 regarding the employer's handling of material deviations and qualifications.

PROJECT TITLE	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
SCMU NUMBER	SCMU5-26/27-0051

Page	Clause /Item	Proposal

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 tenderer are within my personal knowledge and are to the best of my knowledge both true and correct

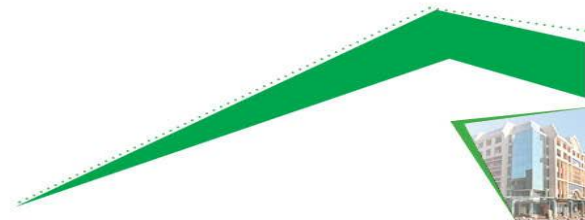
Signed

Date

Name

Position

Enterprise name



C

RESOLUTION FOR SIGNATORY

CERTIFICATE 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 or on company letter head.

An example is given below:

"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 tender 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: _____

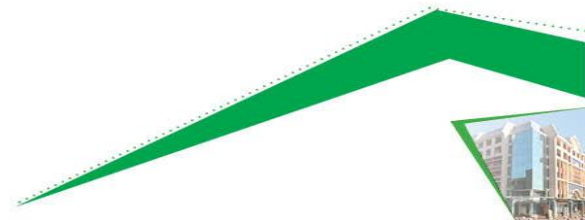
DATE: _____

SIGNATURE OF SIGNATORY: _____

WITNESSES:

DIRECTOR (NAMES)		SIGNATURE	
DIRECTOR (NAMES)		SIGNATURE	
DIRECTOR (NAMES)		SIGNATURE	
DIRECTOR (NAMES)		SIGNATURE	
DIRECTOR (NAMES)		SIGNATURE	
DIRECTOR (NAMES)		SIGNATURE	

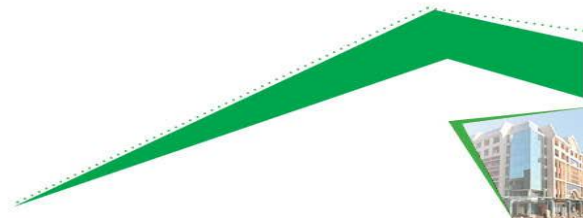
If you cannot complete this form, attach a separate sheet (in a company letter head, project specific and signed by all directors):



D

CERTIFICATE OF AUTHORITY FOR JOINT VENTURES

This Returnable Schedule is to be completed by joint ventures.		
We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorize Mr/Ms, authorized signatory of the company, acting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.		
PROJECT TITLE	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL	
SCMU NUMBER	SCMU5-26/27-0051	
NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner:		Signature. Name Designation.....
..... .		Signature. Name Designation.....
..... .		Signature. Name Designation.....
..... .		Signature. Name Designation.....

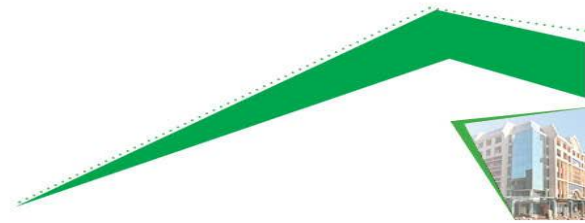


E

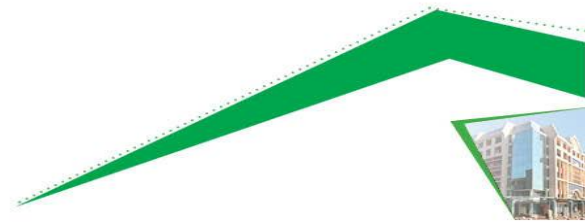
SCHEDULE OF PROPOSED SUBCONTRACTORS

PROJECT TITLE	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
SCMU NUMBER	SCMU5-26/27-0051
We notify you that it is our intention to employ the following Subcontractors for work in this contract. The Subcontractors will all be CIDB registered and their CIDB Registration number shall be submitted below. If we are awarded a contract, we agree that this notification does not change the requirement for us to submit the names of proposed subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us. We confirm that all subcontractors who are or to be contracted are registered on Central Supplier Database (CSD).	

No.	Name and address of proposed Subcontractor	Nature and extent of work	Year completed	Value	Contact details
1					
2					



3					
4					
5					
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 tenderer are within my personal knowledge and are to the best of my knowledge both true and correct					



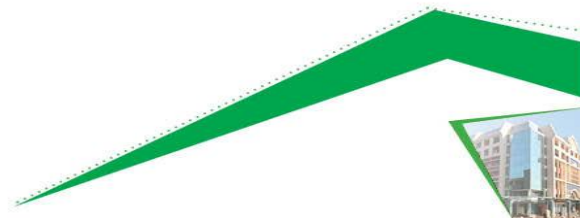
Signed

Date

Name

Position

Enterprise name



F

CAPACITY OF THE BIDDER

PROJECT TITLE	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
SCMU NUMBER	SCMU5-26/27-0051

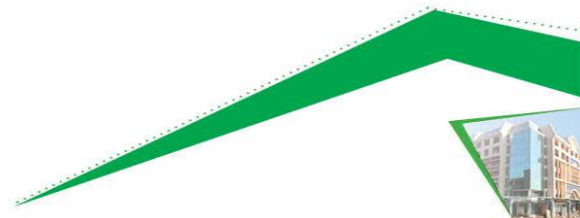
WORK CAPACITY: (The Bidder is requested to furnish the following capacity particulars and to attach additional pages if more space is required. Failure to furnish the particulars may result in the Bid being disregarded.)

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 tenderer are within my personal knowledge and are to the best of my knowledge both true and correct.

Signed:		Date	
Name:		Position	
Enterprise Name:			



G

RELEVANT PROJECT EXPERIENCE – COMPLETED PROJECTS

Tenderers 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 tenderer'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					

If there are more projects, 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 tenderer are within my personal knowledge and are to the best of my knowledge both true and correct.

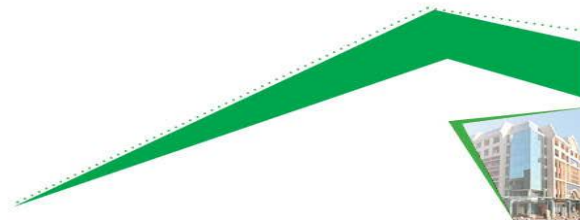
Signed.....

Date.....

Name.....

Position.....

Enterprise name.....



H

RELEVANT PROJECT EXPERIENCE – CURRENT PROJECTS

Tenderers 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 if this is different, the period during which the tenderer'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.	PROJECT VALUE	STAGE OF PROJECT
1						
2						
3						

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

Signed

Date

.....

Name

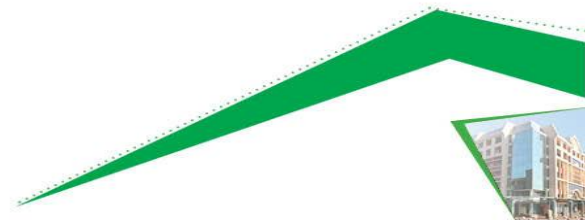
Position

.....

Enterprise name

.....

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 tenderer are within my personal knowledge and are to the best of my knowledge both true and correct.



!

**OTHER OFFERS SUBMITTED AT TIME OF THIS TENDER FOR WHICH RESULTS ARE PENDING
(if they exist)**

(Any other client's tender must also be included)

BID NO. / PROJECT NUMBER	PROJECT NAME	CLIENT NAME & CONTACT NO.	VALUE TENDERED IN RANDS	DATE SUBMITTED	CONTACT DETAILS (CLIENT)
1					
2					
3					
4					

Signed

Date

.....

Name

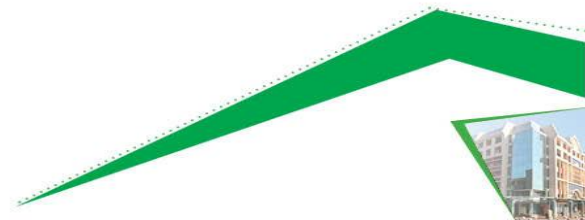
Position

.....

Enterprise name

.....

If there are more projects, attach a separate page to address this issue (the above table is just for reference purposes).



J

SCHEDULE OF TENDERER'S LITIGATION HISTORY

The tenderer shall list below details of any litigation with which the tenderer (including its directors, shareholders or other senior members in previous companies) has been involved with any organ of state or state department within the last ten years. The details must include the year, the litigating parties, the subject matter of the dispute, the value of any award or estimated award if the litigation is current and in whose favour the award, if any, was made.

NO.	NAME OF CLIENT.	OTHER LITIGATING PARTY	BRIEF DETAILS OF DISPUTE	PROJECT VALUE	DATE RESOLVED OR STATUS OF LITIGATION
1					
2					
3					
4					

Signed

Date

.....

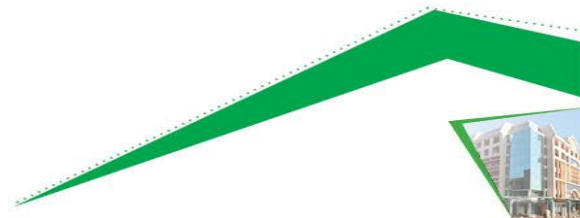
Name

Position

.....

Enterprise name

.....



K

Project Reference Forms – 1

Project title:	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
Project Number:	SCMU5-26/27-0051

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname) of
_____ (company name) declare
that I was the Project Manager on the following building construction project successfully
executed by _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

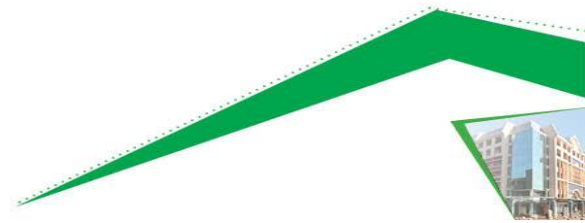
A. Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
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						
TOTAL						

B. Would you consider / recommend this tenderer again:

YES	NO

C. Any other comments:



D. My contact details are:

Telephone: _____ Cell phone: _____ Fax: _____

E-mail: _____

Thus, signed at _____ on this _____ day of _____ 2026.

Signature of principal agent

COMPANY STAMP

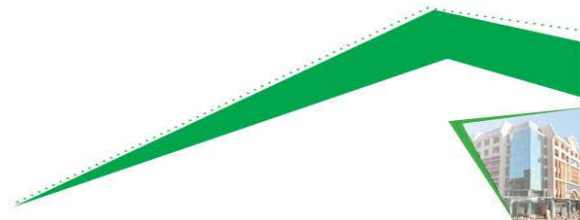
NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

Date



Project Reference Forms - 2

Project title:	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
Project Number:	SCMU5-26/27-0051

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

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

that I was the Project Manager on the following building construction project successfully
executed by _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

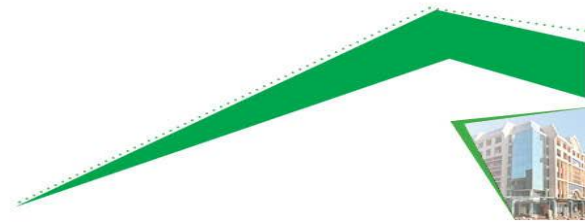
A. Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
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.						
TOTAL						

B. Would you consider / recommend this tenderer again:

YES	NO

C. Any other comments:



D. My contact details are:

Telephone: _____ Cell phone: _____ Fax: _____

E-mail: _____

Thus, signed at _____ on this _____ day of _____ 2026.

Signature of principal agent

COMPANY STAMP

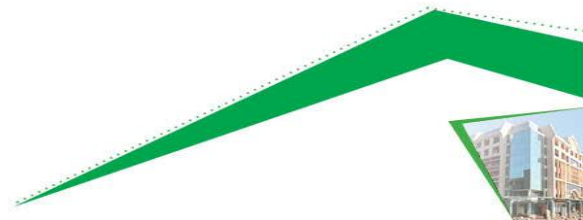
NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

Date



Project Reference Forms – 3

Project title:	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
Project Number:	SCMU5-26/27-0051

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname) of _____ (company name) declare that I was the Project Manager on the following building construction project successfully executed by _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

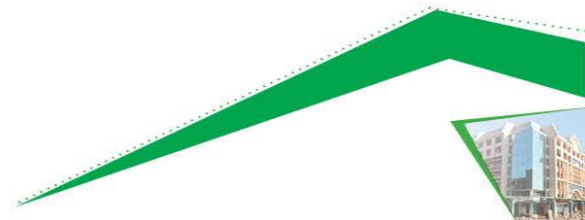
A. Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
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.						
TOTAL						

B. Would you consider / recommend this tenderer again:

YES	NO

C. Any other comments:



D. My contact details are:

Telephone: _____ Cell phone: _____ Fax: _____

E-mail: _____

Thus, signed at _____ on this _____ day of _____ 2026.

Signature of principal agent

COMPANY STAMP

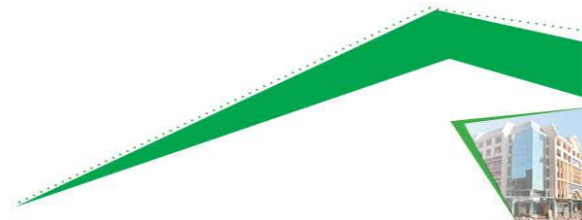
NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

Date



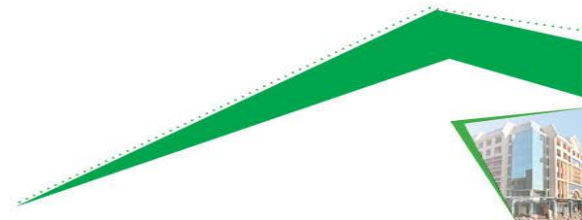
L

BASELINE RISK ASSESSMENT

PROJECT TITLE	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
SCMU NUMBER	SCMU5-26/27-0051
<i>PLEASE NOTE THAT THIS IS A BASELINE RISK ASSESSMENT AND NOT A DETAILED RISK ASSESSMENT OF ALL ANTICIPATED ACTIVITIES ON SITE</i>	

Activity	Risk to Safety	Risk to Health	Risk to Environmental	Risk to Public Safety	Control Measures
Brickwork	Physical injury, Fatality				PPE, Use of Scaffolding
Roofing	Physical injury, Fatality				PPE, Use of Scaffolding
Plastering	Skin irritation, temporary blindness	Long term breathing problems	Ground contamination	Dust inhalation	Use of PPE, guarding off site on work areas
Paintwork	Skin irritation, temporary blindness	Long term breathing problems	Ground contamination	Air pollution	Use of PPE, guarding off site on work areas
Construction activities / demolition	Temporary deafness	Permanent deafness	Noise pollution	Noise pollution	Guarding / barricading of site
Moving machines	Driven over by machines	Injury to workers	Fuel spillage	Driven over by machines	Signage and slow driving

You can list all activities on a separate page to address this issue (the above table is just for reference purposes).



M

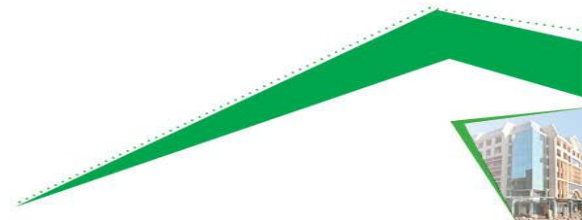
A. EASTERN CAPE INFRASTRUCTURE INPUT MATERIAL

PROJECT NAME	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
PROJECT DESCRIPTION (SCOPE)	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
SCMU NUMBER	SCMU5-26/27-0051
CONTRACTOR NAME:	

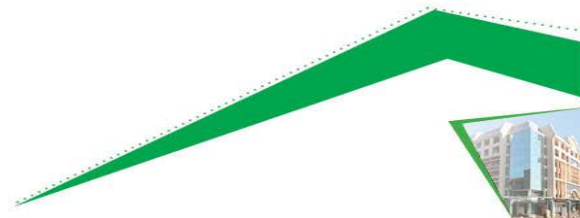
- Below is the list of building material which must be sourced from Eastern Cape based suppliers, manufacturers or accredited agents.
- On monthly basis, the contractor will report the purchasing of any of this material.
- The report will then be communicated to PT & OTP on quarterly basis or in whichever intervals, as prescribed by PT & OTP.

A. BUILDING MATERIAL LISTS– BUILDING RELATED STRUCTURES (NEW, REFURBISHMENTS & RENOVATIONS)

ITEM	BUILDING MATERIAL (TYPE)	ESTIMATE AMOUNT (Rands)
1	Foundations:	
1.1	Concrete	
1.2	Reinforcement	
1.3	Brickwork	
2	Superstructure:	
2.1	Brickwork	
2.2	Brickwork Sundries	
2.3	Lintels (precast concrete)	
2.4	Roof Structure (Steel Structures)	
2.5	Roof Covering (Steel)	
2.6	Rainwater Goods	
2.7	Doors (Timber)	



2.8	Doors Frames (Steel)	
2.9	Aluminium windows	
2.10	Aluminium doors	
3	Internal Finishes:	
3.1	Floor Finishes (Tiling and screeds)	
3.2	Tile Skirtings	
3.3	Floor finishes and skirtings (Vinyl and screeds)	
3.4	Internal Plaster	
3.5	Internal Wall Finishes	
3.6	Ceilings	
3.7	Ceiling Finishes (Painting)	
3.8	Cornices	
3.9	Waterproofing products	
4	External Finishes:	
4.1	Bricks (all kinds)	
4.2	External Plaster	
4.3	External Wall Finishes (Painting)	
5	Fittings and Furniture:	
5.1	Ironmongery	
5.2	Sanitaryware	
5.3	Stainless Steel Fittings	
5.4	Blinds	



6	Services:	
6.1	Plumbing Pipes	
6.2	Plumbing Fittings	
7	External Works:	
7.1	Paving	
7.2	Kerbing	
7.3	Fencing	
7.4	Stormwater pipes	
7.5	Stormwater channels	
7.6	Water pipes	
7.7	Sewer Pipes	
	TOTAL	

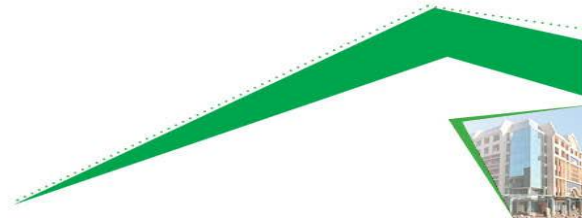
B. CONFIRMATION

1. I.....(**Contractor name**)
acknowledge and confirm the above-mentioned material will be sourced in the Eastern Cape Province, from Eastern Cape based material suppliers and manufacturers.
2. I confirm that on monthly basis I will produce a proof of purchase of this material used or to be used, either in the form of delivery notes, tax invoices or any formal document which verifies that the material or goods were sourced from an Eastern Cape based supplier or manufacturer.

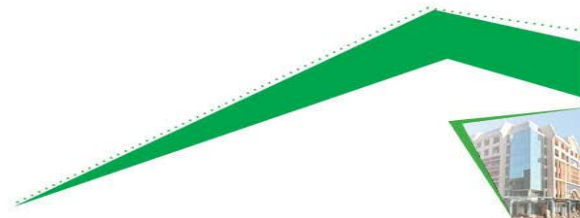
Representative of the Contractor (Name)

Signature

Date



PART C1.2: CONTRACT DATA



The Joint Building Contracts Committee® - NPC
CONTRACT DATA
For use by ORGANS OF STATE and other PUBLIC SECTOR BODIES
Principal Building Agreement
Edition 6.2 - May 2018

A PROJECT INFORMATION

A1.0 Works [1.1]

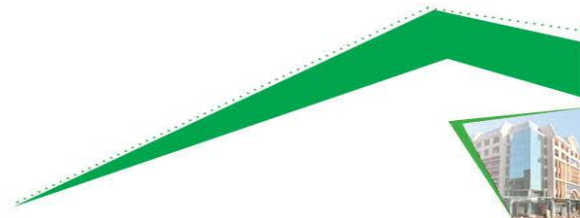
Project name	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
Reference number	SCMU5-26/27-0051
Works description	Refer to document C3 – Scope of Work

A2.0 Site [1.1]

Erf / stand number	2199
Township / Suburb	Bethelsdorp, Eastern Cape
Site address	273 Rensburg Street, West End, Bethelsdorp
Local authority	Nelson Mandela Bay Metropolitan Municipality

A3.0 Employer [1.1]

Official Name of Organ of State / Public Sector Body	Eastern Cape Department of Public Works and Infrastructure		
Business registration number	N/A		
VAT/GST number	N/A		
Country	South Africa		
Employer's representative: Name	Mr. Lwazi Zulu		
E-mail	Lwazi.Zulu@ecdpw.gov.za		
Mobile number	069 007 6129	Telephone number	
Postal address	55 Albany Road, Gqeberha Central, Gqeberha	Postal Code	5605
Physical address	55 Albany Road, Gqeberha Central, Gqeberha	Postal Code	6000



A4.0 Principal Agent [1.1]

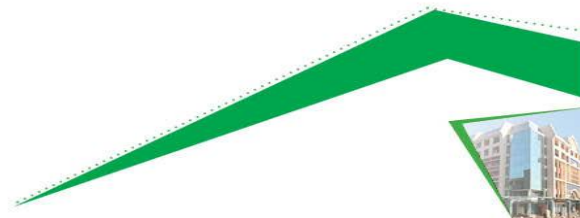
Name	Archworxs		
Legal entity of above	Archworxs	Contact person	Mr. Xabiso Sidloyi
Practice number		Telephone number	041 582 4965
		Mobile number	073 377 5307
Country	South Africa	E-mail	xabiso@archwoxs.com
Postal address	2 Cross Street, Richmond Hill, Port Elizabeth	Postal Code	6000
Physical address	2 Cross Street, Richmond Hill, Port Elizabeth	Postal Code	6000

A5.0 Agent [1.1]

Discipline	Architects		
Name	Archworxs		
Legal entity of above	Archworxs	Contact Person	Mr. Xabiso Sidloyi
Practice number		Telephone Number	041 582 4965
		Mobile Number	073 377 5307
Country	South Africa	E-mail	xabiso@archwoxs.com
Postal address	2 Cross Street, Richmond Hill, Port Elizabeth	Postal Code	6000
Physical address	2 Cross Street, Richmond Hill, Port Elizabeth	Postal Code	6000

A6.0 Agent [1.1]

Discipline	Quantity Surveyor		
Name	Bosele Consulting (Pty) Ltd		
Legal entity of above	Bosele Consulting (Pty) Ltd	Contact person	Ms. Tlamelo Gulubane
Practice number		Telephone number	043 880 1212
		Mobile number	073 610 4768
Country	South Africa	E-mail	Tlamelo@boseleconsulting.co.za
Postal address	10 Kensington Road, Nahoon, East London	Postal Code	5241
Physical address	10 Kensington Road, Nahoon, East London	Postal Code	5241



A7.0 Agent [1.1]

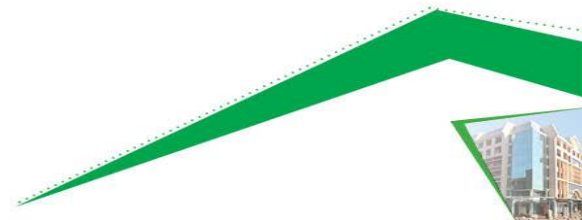
Discipline	Electrical Engineers		
Name	Digital Greencables		
Legal entity of above	Digital Greencables	Contact person	Mr. Sam Thobela
Practice number		Telephone number	
		Mobile number	061 485 5481
Country	South Africa	E-mail	Sam.thobela@hotmail.co.za
Postal address	NU7 Msinane Street, Motherwell, Gqeberha	Postal Code	6000
Physical address	NU7 Msinane Street, Motherwell, Gqeberha	Postal Code	6000

A8.0 Agent [1.1]

Discipline	Mechanical Engineer		
Name	Mekan Engineering Services		
Legal entity of above	Mekan Engineering Services	Contact person	Mr. Rotondwa Mmboyi
Practice number		Telephone number	043 726 0248
		Mobile number	079 331 0835
Country	South Africa	E-mail	rotondwa@mekanes.co.za
Postal address	Unit 1, 5 Stewart Drive, East London	Postal Code	5201
Physical address	Unit 1, 5 Stewart Drive, East London	Postal Code	5201

A9.0 Agent [1.1]

Discipline	Civil & Structural Engineer		
Name	ZNM Consulting Engineers		
Legal entity of above	ZNM Consulting Engineers	Contact person	Mr. Mzukisi Mashaba
Practice number		Telephone number	
		Mobile number	079 895 0558
Country	South Africa	E-mail	mzukisi@znmeng.co.za
Postal address	8A Bonza Bay Road, Beacon Bay, East London	Postal Code	5201
Physical address	8A Bonza Bay Road, Beacon Bay, East London	Postal Code	5201



A10.0 Agent [1.1]

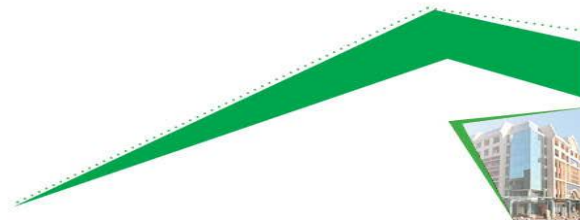
Discipline	Health and Safety		
Name	Norris Health and Safety service		
Legal entity of above	Norris Health and Safety service	Contact person	Mr Shaus Norris
Practice number		Telephone number	
		Mobile number	082 469 3974
Country	South Africa	E-mail	shaun@norrishs.co.za
Postal address	23 Van Plettenberg Street, Port Elizabeth	Postal Code	6000
Physical address	23 Van Plettenberg Street, Port Elizabeth	Postal Code	6000

A11.0 Agent [1.1]

Discipline	Social Facilitator		
Name	A and V Holdings (Pty) Ltd		
Legal entity of above	A and V Holdings (Pty) Ltd Company	Contact person	Mr. Aubrey Gqezengele
Practice number		Telephone number	
		Mobile number	071 158 1371
Country		E-mail	aubreygqeze@gmail.com
Postal address	45 Carelese Street, Rowallan Park, Gqeberha	Postal Code	6025
Physical address	45 Carelese Street, Rowallan Park, Gqeberha	Postal Code	6025

A12.0 Agent [1.1]

Discipline			
Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address		Postal Code	
Physical address		Postal Code	



B CONTRACT INFORMATION

B 1.0 Definitions [1.1]

Bills of quantities: System/Method of measurement	Standard System of Measuring Building Work (Sixth Edition) as amended
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B 2.0 Law, regulations and notices [2.0]

Law applicable to the works , state country [2.1]	Republic of South Africa
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B 3.0 Offer and acceptance [3.0]

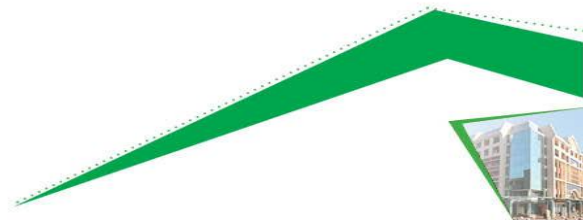
Currency applicable to this agreement [3.2]	South African Rand
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B 4.0 Documents [5.0]

The original signed agreement is to be held by the principal agent [5.2], if not, indicate by whom	Employer
Number of copies of construction information issued to the contractor at no cost [5.6]	Three (3)

Documents comprising the agreement	Page numbers
The JBCC® Principal Building Agreement, Edition 6.2 May 2018	1 to 30
The JBCC® Principal Building Agreement - Contract Data for Organs of State and other Public Sector Bodies, Edition 6.2 May 2018	1 to 18
The JBCC® General Preliminaries for use with the JBCC® Principal Building Agreement, Edition 6.2 May 2018	1 to 30

Contract drawings – description	Number	Revision	Date
Architectural Drawings (Refer to Annexure 4)			
Civil and Structural Drawings (Refer to Annexure 4)			
Electrical Drawings (Refer to Annexure 4)			
Mechanical Drawings (Refer to Annexure 4)			



B 5.0 Employer's Agents [6.0]

Authority is delegated to the following **agents** to issue **contract instructions** and perform duties for specific aspects of the **works** [6.2]

Principal Agent

Principal agent's and **agents'** interest or involvement in the **works** other than a professional interest [6.3]

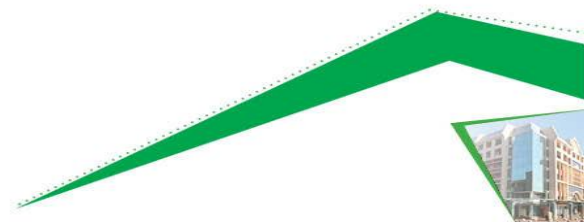
None

B 6.0 Insurances [10.0]

Insurances by employer			Amount including tax	Deductible amount including tax
Yes / No:	No			
Contract works insurance:				
	New works [10.1.1] (contract sum or amount)			
or	Works with practical completion in sections [10.2] (contract sum or amount			
or	Works with alterations and additions [10.3] (reinstatement value of existing structures with or including new works)			
	Direct contractors [10.1.1; 10.2] where applicable, to be included in the contract works insurance			
	Free issue [10.1.1; 10.2] where applicable, to be included in the contract works insurance			
	Escalation, professional fees and reinstatement costs if not included above			
Total of the above contract works insurance amount				
Supplementary insurance [10.1.2; 10.2]				
Public liability insurance [10.1.3; 10.2]				
Removal of lateral support insurance [10.1.4; 10.2]				
Other insurances [10.1.5]				
Yes/ No?	No	If yes, description 1		
Yes/ No?	No	If yes, description 2		

and/or

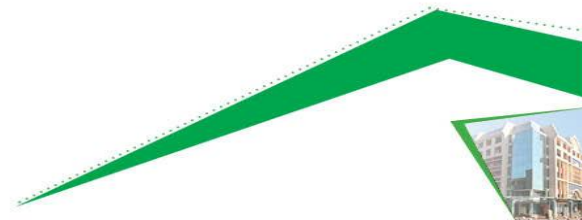
Insurances by Contractor			Amount including tax	Deductible amount including tax
Yes / No:		Yes		
	New works [10.1.1] (contract sum or amount)		N/A	N/A



or	Works with practical completion in sections [10.2] (contract sum or amount)	N/A	N/A
or	Works with alterations and additions [10.3] (reinstatement value of existing structures with or including new works)	To the minimum value of the contract sum + 10%	With a deductible not exceeding 5% of each and every claim
	Direct contractors [10.1.1; 10.2] where applicable, to be included in the contract works insurance	N/A	
	Free issue [10.1.1; 10.2] where applicable, to be included in the contract works insurance	N/A	
	Escalation, professional fees and reinstatement costs if not included above	N/A	
Total of the above contract works insurance amount		To the minimum value of the contract sum + 10%	
Supplementary insurance [10.1.2; 10.2]			With a deductible not exceeding 5% of each and every claim
Public liability insurance [10.1.3; 10.2]			
Removal of lateral support insurance [10.1.4; 10.2]			
Other insurances [10.1.5]			
Yes/ No?	No	If yes, description 1	
Hi Risk Insurance [10.1.5.1]			
Yes/ No?	No	If yes, description 2	

B 7.0 Obligations of the employer [12.1]

Existing premises will be in use and occupied [12.1.2]		Yes / No?	No
If yes, description			
Restriction of working hours [12.1.2]		Yes / No?	No
If yes, description	As per condition of Employment act		
Natural features and known services to be preserved by the contractor [12.1.3]		Yes / No?	Yes



If yes, description	Existing under and above ground services within the school premises.		
Restrictions to the site or areas that the contractor may not occupy [12.1.4]		Yes / No?	No
If yes, description			
Supply of free issue [12.1.10]		Yes / No?	No
If yes, description			

B 8.0 Nominated subcontractors [14.0]

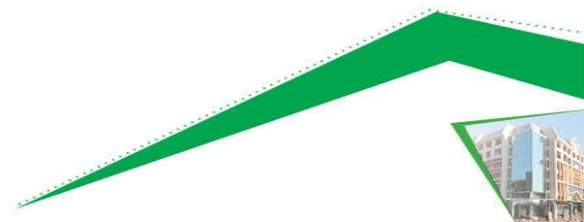
Yes / No?	No	If yes, description of specialisation
Specialisation 1		
Specialisation 2		
Specialisation 3		
Specialisation 4		
Specialisation 5		
Specialisation 6		
Specialisation 7		
Specialisation 8		
Specialisation 9		

B 9.0 Selected subcontractors [15.0]

Yes / No?	Yes	If yes, description of specialisation
Specialisation 1		Various SMME Subcontractors
Specialisation 2		Electrical
Specialisation 3		Mechanical
Specialization 4		
Specialization 5		
Specialisation 6		
Specialisation 7		
Specialisation 8		
Specialisation 9		
Specialisation 10		

B 10.0 Direct contractors [16.0]

Yes / No?	Yes	If yes, description of extent of work
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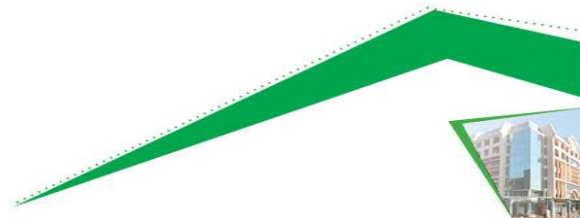


Extent of work [12.1.11]	Loose Furniture
Extent of work [12.1.11]	
Extent of work [12.1.11]	
Extent of work [12.1.11]	
Extent of work [12.1.11]	

B 11.0 Description of sections [20.1]

Section 1	Demolition of the existing buildings and preparation of the site surface for new construction. New: 10 Classroom block with Store (5 at Ground Floor and 5 at First Floor), 1 x Classroom block with Workroom and Music Room, 10 Classroom block with HOD (5 at Ground Floor and 5 at First Floor), 4 Classroom block with Store (2 at Ground Floor and 2 at First Floor), 2 Classroom block, 3 Classroom block with Store (At First Floor), 2 x Multipurpose with Work Room and Stores, Library with 2 x Computer, 3 x Work Room and 3 x Stores, Welding and Sewing Workshop, Woodwork and Plumbing Workshop, Hairdressing Room, Presentation Room, CS Cookery Room, Dining and Nutrition Centre, Administration, Hall, Guardhouse, Refuse Room, Electrical Installation, Mechanical Installation, Parking Area, Assembly Area, Courtyard landscaping, Security Fencing internally, Water reticulation, Landscaping, Retaining Walls, Sewer Drainage, Netball Court and Entrance Canopy.
Section 2	Dismantle and load the existing temporary structures at Arcadia Secondary School following practical completion of the works. Transport the dismantled structures, including all associated components and materials, to a new site located within a 50 km radius of Arcadia Secondary School, as designated by the Department of Education. Rugby/Soccer Sport Field Landscaping, Rugby/Sport Field posts with and including Terrace seating Rugby/Soccer Sport Fiel Parking
Section 3	N/A
Section 4	N/A
Section 5	N/A
Section 6	N/A
Section 7	N/A

B 12.0 Possession of site [12.1.5], practical completion [19.0; 20.0] and penalty [24.0]

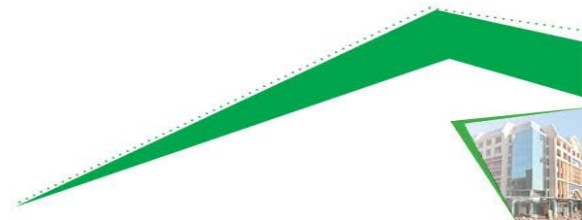


Practical completion for the works as a Whole	Intended date of possession of the site Refer B17.0 [12.1.5; 12.2.22]	Period for inspection by the principal agent [19.3]	The date for practical completion shall be the period as indicated below from the date of possession of the site by the contractor [12.2.7; 24.1]	Penalty for late completion [24.1]
		working days	Period in months	Penalty amount per calendar day (excl. tax)

or where **sections** are applicable

Practical completion of a section of the works	Intended date of possession of the site Refer B17.0 [12.1.5; 12.2.22]	Period for inspection by the principal agent [19.3]	The date for practical completion shall be the period as indicated below from the date of possession of the site by the contractor [12.2.7; 24.1]	Penalty for late completion [24.1]
		Working days	Period in months	Penalty amount per calendar day (excl. tax)
Section 1		10	24 Months	R1.25c/R100 of Contract Amount
Section 2		5	4 Months	R8.5c/R100 of Contract Amount
Section 3				
Section 4				
Section 5				
Section 6				
Section 7				
Section 8				
Remainder of the				

Criteria to achieve **practical completion** not covered in the definition of **practical completion**



No further Criteria

B 13.0 Defects liability period [21.0]

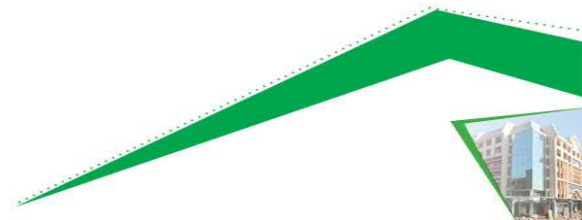
Extended defects liability period: Refer B17.0 [21.13]	Yes / No?	Yes
If yes, description of applicable elements	-all civil works relating to drainage and water supply -all work done under electrical subcontracts -all work done under mechanical subcontracts	

B 14.0 Payments [25.0]

Date of month for issue of regular payment certificates [25.2]	25th		
Contract price adjustment / Cost fluctuations [25.3.4; 26.9.5]	Yes / No?	Yes	
If yes, method to calculate	CPAP		
Employer shall pay the contractor within: [25.10]	Thirty (30) calendar days		

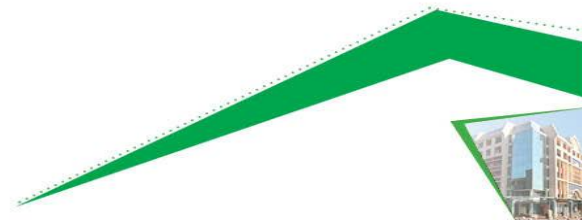
B 15.0 Dispute resolution [30.0]

Adjudication [30.6.1; 30.10] Name of nominating body	Refer to Part C1.3 Dispute Resolution Mechanism	
Applicable rules for adjudication [30.6.2]	Adjudication in accordance with the JBCC adjudication process	
Arbitration [30.7.4; 30.10]	Yes / No?	Yes
If Yes, name of nominating body	Association of Arbitrators (SA)	
*If No, then dispute will be referred to litigation		
Applicable rules for arbitration [30.7.5]	N/A	

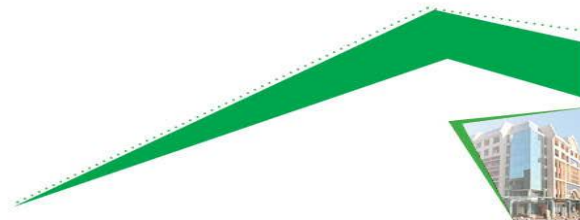


B 16.0 JBCC® General Preliminaries – selections

Provisional bills of quantities [B2.2]	Yes / No?	Yes
Availability of construction information – is the construction information complete? [B2.3]	Yes / No?	No
Previous work - dimensional accuracy - details of previous contract(s) [B3.1]	Refer to C3.1: Scope of Works for works	
Previous work - defects - details of previous contract(s) [B3.2]	N/A	
Inspection of adjoining properties - details [B3.3]	N/A	
Handover of site in stages - specific requirements [B4.1]	N/A	
Enclosure of the works - specific requirements [B4.2]	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 gate, which must be maintained during the construction period and removed on completion of the works.	
Geotechnical and other investigations - specific requirements [B4.3]	N/A	
Existing premises occupied - details [B4.5]	N/A	



Services - known - specific requirements [B4.6]		Services not indicated on drawings will be pointed out on site by the principal agent	
Water [B8.1]	By contractor	Yes / No?	Yes
	By employer	Yes / No?	No
	By employer – metered	Yes / No?	No
Electricity [B8.2]	By contractor	Yes / No?	Yes
	By employer	Yes / No?	No
	By employer – metered	Yes / No?	No
Ablution facilities [B8.3]	By contractor	Yes / No?	Yes
	By employer	Yes / No?	No
Communication facilities - specific requirements [B8.4]		No specific requirements	
Protection of the works - specific requirements [B11.1]		No specific requirements	
Protection / isolation of existing works and works occupied in sections - specific requirements [B11.2]		Protection is required	
Disturbance - specific requirements [B11.5]		No specific requirements	
Environmental disturbance - specific requirements [B11.6]		No specific requirements	



B 17.0 Changes made to JBCC® documentation

Reference may be made to other documents forming part of this **agreement**

1 Definitions

AGREEMENT: The completed Form of Offer and Acceptance, the completed **JBCC®** Principal Building Agreement and **JBCC® contract data for organs of state and other public sector bodies, the contract drawings, the priced document** and any other documents reduced to writing and signed by the authorised representatives of the **parties**

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

CONTRACT DATA FOR ORGANS OF STATE AND OTHER PUBLIC SECTOR BODIES: The document listing the Organs of State and other Public Sector Bodies' requirements and the project specific information

INTEREST: The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999), calculated as simple interest, in respect of debts owing to the State, and will be the rate as determined by the Minister of Justice and Constitutional Development from time to time 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999), calculated as simple interest, in respect of debts owing by the State

PRINCIPAL AGENT: The person or entity appointed by the **employer** and named in the **contract data for organs of state and other public sector bodies**. In the event of a principal agent not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by the employer's representative as named in the **contract data for organs of state and other public sector bodies**

3.0 Offer and Acceptance

Amend 3.3 to read as follows:

This **agreement** shall come into force on the date as stated on the Form of Offer and Acceptance and continue to be of force and effect until the end of the **latent defects** liability period [22.0] notwithstanding termination [29.0] or the certification of **final completion** [21.0] and final payment [25.0]

6.0 Employer's Agents

Add the following as 6.7:

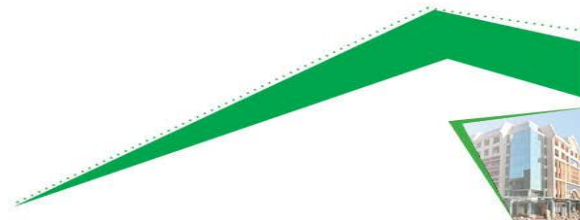
In terms of the clauses listed hereunder, the **employer** has retained its authority and has not given a mandate to the **principal agent**. The **employer** shall sign all documents in relation to clauses 4.2, 14.1.2, 14.1.4, 14.4.1, 14.6, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12 and 28.4

9.0 Indemnities

9.2.7: Add the following to the end of the first sentence: "... due to no fault of the **contractor**"

10.0 Insurances

Add the following as 10.1.5.1:



Hi risk Insurance

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

10.1.5.1.1 Damage to **the works**

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

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

10.1.5.1.2 Injury to persons or loss of or damage to property

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

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

10.1.5.1.3

It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the date of possession of the site, but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so

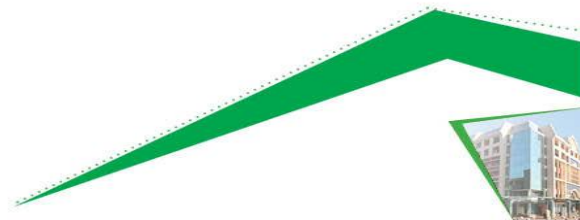
10.1.5.1.4

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 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

11.0 Securities

Amend 11.10 to read as follows:

There shall be no lien or right of retention held by any **contractor** in respect of the works executed on **site**



12.0 Obligations of the Parties

Amend 12.1.5 to read as follows:

Give possession of the **site** to the **contractor** within ten (10) **working days** of the contractor complying with the terms of 12.2.22

12.2.2: Not applicable

Add the following as 12.2.22:

Within fifteen (15) **working days** of the date of the **agreement** submit to the **principal agent** an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

19.0 Practical Completion

19.5: Delete the words “subject to the **contractor’s** lien or right of continuing possession of the **works** where this has not been waived”

21.0 Defects Liability Period and Final Completion

Add the following as 21.13:

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

25.0 Payment

25.7.5: Not applicable

25.10: Delete the words “and/or **compensatory interest**”

25.14.2: Not applicable

27.0 Recovery of Expense and/or Loss

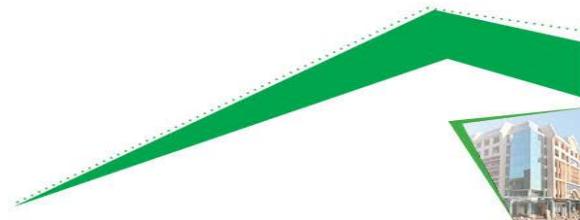
27.1.5: Not applicable

29.0 Termination

Add the following after 29.1.3: or where ...

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

29.1.5: The **contractor** has engaged in corrupt or fraudulent practices in competing for or in executing the contract



C TENDERER'S SELECTIONS

C 1.0 Security [11.0]

Guarantee for construction: Select Option A or B		Option:	
Option A	Payment reduction of 10% of the value certified in the payment certificate		
Option B	Fixed construction guarantee of 5% of the contract sum and a payment reduction of 5% of the value certified in the payment certificate		
Guarantee for payment by employer [11.5.1; 11.10]		Not Applicable	
Advance payment, subject to a guarantee for advance payment [11.2.2; 11.3]		Not Applicable	

C 2.0 Contractor's annual holiday periods during the construction period

Year 1 contractor's annual holiday period	start date	15 December 2026	end date	15 January 2027
Year 2 contractor's annual holiday period	start date	15 December 2027	end date	15 January 2028
Year 3 contractor's annual holiday period	start date		end date	

C 3.0 Payment of preliminaries [25.0]

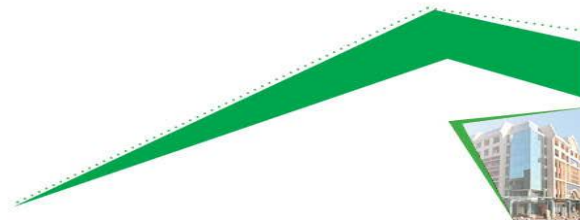
Contractor's selection: Select Option A or B	Option:	
Where the contractor does not select an option, Option A shall apply		

Payment methods

Option A	The preliminaries shall be paid in accordance with an amount prorated to the value of the works executed in the same ratio as the amount of the preliminaries to the contract sum , which contract sum shall exclude the amount of preliminaries . Contingency sum(s) and any provision for cost fluctuations shall be excluded for the calculation of the aforesaid ratio
Option B	The preliminaries shall be paid in accordance with an amount agreed by the principal agent and the contractor in terms of the priced document to identify an initial establishment charge, a time-related charge and a final dis-establishment charge. Payment of the time-related charge shall be assessed by the principal agent and adjusted from time to time as may be necessary to take into account the rate of progress of the works

Lump sum contract

Where the amount of **preliminaries** is not provided it shall be taken as 7.5% (seven and a half per cent) of the **contract sum**, excluding contingency sum(s) and any provision for cost fluctuations



C 4.0 Adjustment of preliminaries [26.9.4]

Contractor's selection: Select Option A or B	Option:	
Where the contractor does not select an option, Option A shall apply		

Provision of particulars

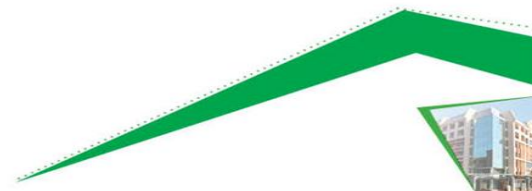
The **contractor** shall provide the particulars for the purpose of the adjustment of **preliminaries** in terms of his selection. Where completion in sections **is** required, the contractor shall provide an apportionment of **preliminaries** per **section**

Option A	An allocation of the preliminaries amounts into Fixed, Value-related and Time-related amounts as defined for adjustment method Option A below, within fifteen (15) working days of the date of acceptance of the tender
Option B	A detailed breakdown of the preliminaries amounts within fifteen (15) working days of possession of the site. Such breakdown shall include, inter alia, the administrative and supervisory staff, the use of construction equipment , establishment and dis-establishment charges, insurances and guarantees, all in terms of the programme

Adjustment Methods

The amount of **preliminaries** shall be adjusted to take account of the effect which changes in time and/or value have on **preliminaries**. Such adjustment shall be based on the particulars provided by the **contractor** for this purpose in terms of Options A or B, shall preclude any further adjustment of the amount of **preliminaries** and shall apply notwithstanding the actual employment of resources by the **contractor** in the execution of the **works**

Option A	The preliminaries shall be adjusted in accordance with the allocation of preliminaries amounts provided by the contractor, apportioned to sections where completion in sections is required Fixed - An amount which shall not be varied Value-related - An amount varied in proportion to the contract value as compared to the contract sum. Both the contract sum and the contract value shall exclude the amount of preliminaries, contingency sum(s) and any provision for cost fluctuations Time-related - An amount varied in proportion to the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value [23.2; 23.3] as compared to the number of calendar days in the initial construction period [26.9.4]
Option B	The adjustment of preliminaries shall be based on the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value [23.2; 23.3] as compared to the number of calendar days in the initial construction period [26.9.4] The adjustment shall take into account the resources as set out in the detailed breakdown of the preliminaries for the period of construction during which the delay occurred

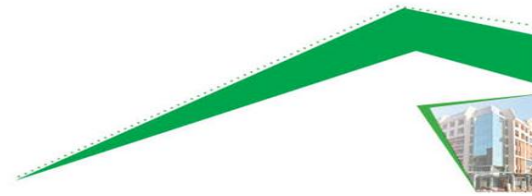


Failure to provide particulars within the period stated

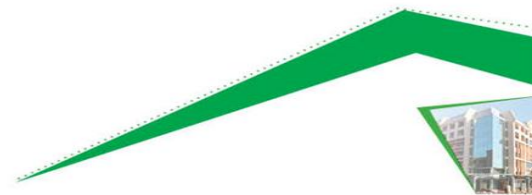
Option A	Where the allocation of preliminaries amounts for Option A is not provided, the following allocation of preliminaries amounts shall apply: Fixed - Ten percent (10%) Value-related - Fifteen percent (15%) Time-related - Seventy-five percent (75%) Where the apportionment of the preliminaries per section is not provided, the categorized amounts shall be prorated to the cost of each section within the contract sum as determined by the principal agent
Option B	Where the detailed breakdown of preliminaries amounts for Option B is not provided, Option A shall apply

Lump sum contract

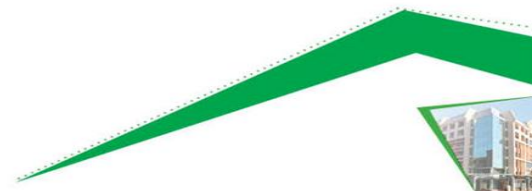
Where the amount of **preliminaries** is not provided it shall be taken as 7.5% (seven and a half percent) Of the **contract sum**, excluding contingency sum(s) and any provision for cost fluctuations



PART C1.3: DISPUTE RESOLUTION MECHANISM



C1.3 CIDB ADJUDICATOR'S AGREEMENT



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

Disputes or differences may arise/have arisen* between the Parties under a Contract dated
 ... and known as
 and these disputes or differences shall be/have been* referred to adjudication in accordance
 with the CIDB Adjudication Procedure, (hereinafter called "the Procedure") and the Adjudicator may
 be or has been requested to act.

* Delete as necessary

IT IS NOW AGREED as follows:

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

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

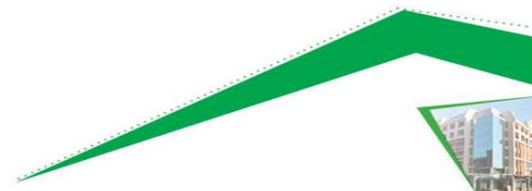
SIGNED by: _____
 Name: _____
 who warrants that he / she is
 duly authorized to sign for and
 behalf of the second Party in
 the presence of

SIGNED by: _____
 Name: _____
 the Adjudicator in the presence
 of

Witness _____
 Name: _____
 Address: _____

Witness: _____
 Name _____
 Address: _____

Witness: _____
 Name: _____
 Address: _____

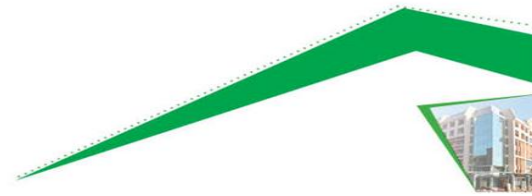


Date: _____ Date: _____ Date: _____

Contract Data

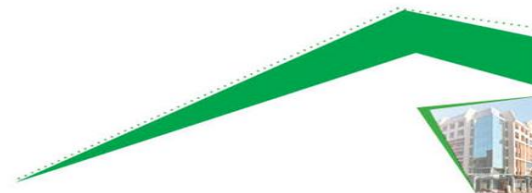
1	The Adjudicator shall be paid at the hourly rate of R. in respect of all time spent upon, or in connection with, the adjudication including time spent travelling.
2	The Adjudicator shall be reimbursed in respect of all disbursements properly made including, but not restricted to: (a) Printing, reproduction and purchase of documents, drawings, maps, records and photographs. (b) Telegrams, telex, faxes, and telephone calls. € Postage and similar delivery charges. (d) Travelling, hotel expenses and other similar disbursements. € Room charges. (f) Charges for legal or technical advice obtained in accordance with the Procedure.
3	The Adjudicator shall be paid an appointment fee of R. This fee shall become payable in equal amounts by each Party within days of the appointment of the Adjudicator, subject to an Invoice being provided. This fee will be deducted from the final statement of any sums which shall become payable under item 1 and/or item 2 of the Contract Data. If the final statement is less than the appointment fee the balance shall be refunded to the Parties.
4	The Adjudicator is/is not* currently registered for VAT.
5	Where the Adjudicator is registered for VAT it shall be charged additionally in accordance with the rates current at the date of invoice.
6	All payments, other than the appointment fee (item 3) shall become due in 30 days after receipt of invoice, thereafter interest shall be payable at 5% per annum above the Reserve Bank base rate for every day the amount remains outstanding.

* Delete as necessary

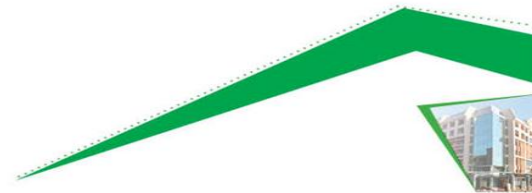


OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

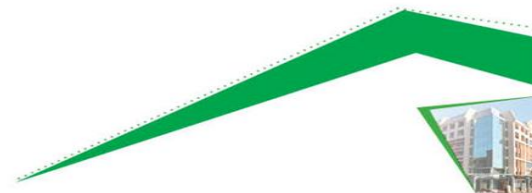
SEE (ANNEXURE 1)



PART C2 PRICING DATA

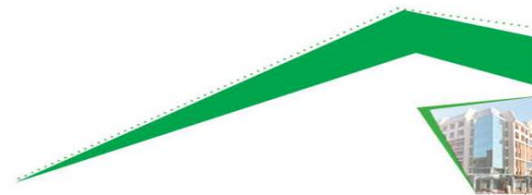


PART C2.1: PRICING INSTRUCTIONS

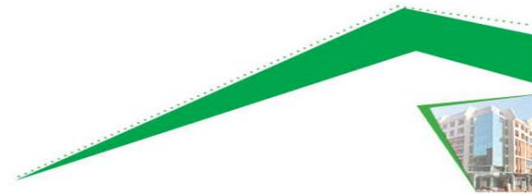


C2.1 Pricing Instructions

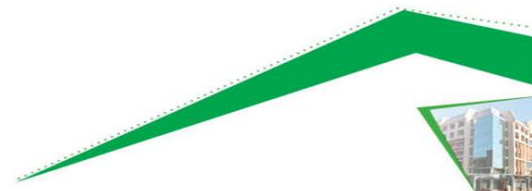
- 1 The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work as amended) published and issued by the Association of South African Quantity Surveyors (Sixth Edition (Revised)), 1999. Where applicable the:
 - a) Civil engineering work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardised Specifications for Civil Engineering Works.
 - b) Mechanical work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardised Specifications for Mechanical Engineering Works.
 - c) Electrical work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardised Specifications for Electrical Engineering Works.
- 2 The agreement is based on the JBCC Edition 6.2 of 2018, prepared by the Joint Building Contracts Committee, The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variables are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 3 Preliminary and general requirements are based on the [preliminaries for the use of JBCC Edition 6.2– May 2018](#). Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 4 It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards).
- 5 The drawings listed in the Scope of Works used for the setting up of these Bills of Quantities are kept by the Principal Agent or Engineer and can be viewed at any time during office hours up until the completion of the works.
- 6 Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
- 7 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 document, The Standard Conditions of Tender, Conditions of Contract, Specifications, Drawings, The document “Construction Works: Specifications: General Specification (PW371-A) Edition 2.0” is obtainable on the Department’s website (<http://www.publicworks.gov.za/> under “Consultants Guidelines”), and shall be read in conjunction with the **bills of quantities** / lump sum document and be referred to for the full descriptions of work to be done and materials to be used The document “Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0” is issued together with the drawings and shall be read in conjunction with the drawings and the **bills of quantities** / lump sum document
- 8 Where any item is not relevant to this specific contract, such item is marked N/A (signifying “not applicable”)
- 9 The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminaries) of the Bills of Quantities
- 10 The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor’s risk.



- 11 The amount of the Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract.
- 12 Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in 11 but taking into account the revised period for completing the works.
- 13 The amount or items of the Preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bills of Quantities:
 - a) an amount which is not to be varied, namely Fixed (F)
 - b) an amount which is to be varied in proportion to the contract value, namely Value Related (V); and
 - c) an amount which is to be varied in proportion to the contract period as compared to the initial construction period excluding revisions to the construction period for which no adjustment to the contractor is not entitled to in terms of the contract, namely Time Related (T).
- 14 Where no provision is made in the Bills of Quantities to indicate which of the three categories in 13 apply or where no selection is made, the adjustments shall be based on the following breakdown:
 - a) 10 percent is Fixed
 - b) 15 percent is Value Related
 - c) 75 percent is Time Related
- 15 The adjustment of the Preliminaries shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.
- 16 The tender price must include 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.
17. The Contractor shall adhere to "The national minimum wage determined by the Minister in accordance with the National Minimum Wage Act (NMWA)", and yearly pronounced increases for duration of contract.



EPWP REQUIREMENTS AND SPECIFICATION



SCOPE OF WORKS IN RESPECT OF WORK RELATING TO THE EXTENDEND PUBLIC WORKS PROGRAMME (EPWP)

Project Name	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL	SCMU Number	SCMU5-26/27-0051
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Introductory notes:

1. The works, or parts of the works will be constructed using labour-intensive methods only in terms of this specification. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters **LI** are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour-intensive specification in the Scope of Works.
2. Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

DESCRIPTION OF THE WORKS

Employer's objectives

The employer's objectives are to deliver public infrastructure using labour-intensive methods.

Labour-intensive works

Labour-intensive works comprise the activities described in the Labour-Intensive Specification. Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work.

LABOUR-INTENSIVE COMPETENCIES OF SUPERVISORY AND MANAGEMENT STAFF

Contractors shall only engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/ Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/ Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent QCTO qualifications (See Appendix C). at NQF outlined in Table 1.

Emerging contractors shall have personally completed, or be registered on a skills programme for the NQF level 2 unit standard. All other site supervisory staff in the employ of emerging contractors must have completed, or be registered on a skills programme for the NQF level 2 unit standards or NQF level 4 unit standards. Table 1: Skills programme for supervisory and management staff.

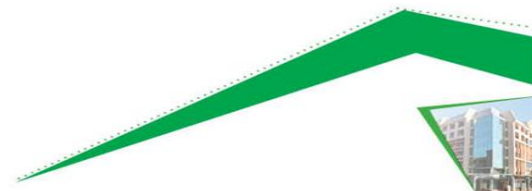
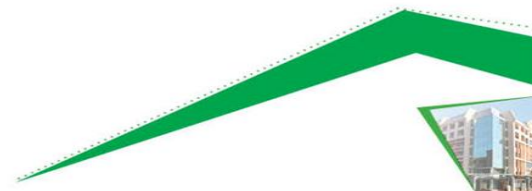


Table 1: Skills programme for supervisory and management staff

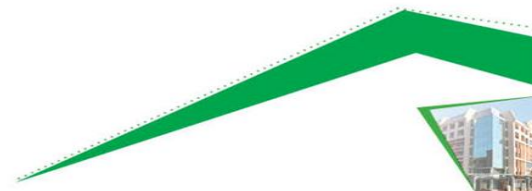
Personnel	NQF level	Unit standard titles	Skills programme description
Team leader / supervisor	2	Apply Labour-Intensive Construction Systems and Techniques to Work Activities	This unit standard must be completed, and any one of these 3 unit standards
		Use Labour-Intensive Construction Methods to Construct and Maintain Roads and Storm water Drainage	
		Use Labour-Intensive Construction Methods to Construct and Maintain Water and Sanitation Services.	
		Use Labour-Intensive Construction Methods to Construct, Repair and Maintain structures	
Personnel	NQF level	Unit standard titles	Skills programme description
Foreman/supervisor	4	Implement Labour-Intensive Construction Systems and Techniques	This unit standard must be completed, and any one of these 3 unit standards
		Use Labour-Intensive Construction Methods to Construct and Maintain Roads and Storm water Drainage	
		Use Labour-Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour-Intensive Construction Methods to Construct, Repair and Maintain structures	
Site Agent /Manager (i.e. the contractor's most senior representative that is resident on the site)	5	Manage Labour-Intensive Construction Processes	Skills Programme against this single unit standard
Details of these skills programmes may be obtained from the CETA ETQA manager (e-mail :gerard@ceta.co.za , tel: 011-265 5900)			

EMPLOYMENT OF UNSKILLED AND SEMI-SKILLED WORKERS IN LABOUR INTENSIVE WORKS

- 1.1 Requirements for the sourcing and engagement of labour.
- 1.1.1 Unskilled and semi-skilled labour required for the execution of all labour-intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.



- 1.1.2 The rate of pay set for the SPWP per task or per day will be an acceptable rate determined by the Department of Labour.
- 1.1.3 Tasks established by the contractor must be such that:
- the average worker completes 5 tasks per week in 40 hours or less; and
 - the weakest worker completes 5 tasks per week in 55 hours or less.
- 1.1.4 The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of 1.1.3.
- 1.1.5 The Contractor shall, through all available community structures, inform the local community of the labour-intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:
- where the head of the household has less than a primary school education;
 - that have less than one full time person earning an income;
 - where subsistence-agriculture is the source of income.
 - that who are not in receipt of any social security pension income
- 1.1.6 The Contractor shall endeavour to ensure that the expenditure on the employment of unskilled and semi-skilled workers is in the following proportions:
- 55 % women;
 - 55% youth who are between the ages of 18 and 35; and
 - 2% on persons with disabilities.
- 1.2 Specific provisions pertaining to SANS 1914-5
- 1.2.1 Definitions
Targeted labour: Unemployed persons who are employed as local labour on the project.
- 1.2.2 Contract participation goals
- 1.2.2.1 There is no specified contract participation goal for the contract. The contract participation goal shall be measured in the performance of the contract to enable the employment provided to targeted labour to be quantified.
 - 1.2.2.2 The wages and allowances used to calculate the contract participation goal shall, with respect to both time-rated and task rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes.
- 1.2.3 Terms and conditions for the engagement of targeted labour
Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into with targeted labour.
- 1.2.4 Terms and conditions for the engagement of targeted labour
Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into with targeted labour.
- 1.2.5 Variations to SANS 1914-5
- 1.2.5.1 The definition for net amount shall be amended as follows:
Financial value of the contract upon completion, exclusive of any value added tax or sales tax which the law requires the employer to pay the contractor.
 - 1.2.5.2 The schedule referred to in 5.2 shall in addition reflect the status of targeted labour as women, youth and persons with disabilities and the number of days of formal training provided to targeted labour.
- 1.3 Training of targeted labour
- 1.3.1 The contractor shall provide all the necessary on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract in a manner that does not compromise worker health and safety.



- 1.3.2 The cost of the formal training of targeted labour, will be funded by the local office of the Department of Labour. This training will take place as close to the project site as practically possible. The contractor must access this training by informing the relevant regional office of the Department of Labour in writing, within 14 days of being awarded the contract, of the likely number of persons that will undergo training and when such training is required.
- 1.3.3 The contractor shall do nothing to dissuade targeted labour from participating in training programmes and shall take all reasonable steps to ensure that each beneficiary is provided with two days of formal training for every 22 days worked.
- 1.3.4 An allowance equal to 100% of the task rate or daily rate shall be paid by the contractor to workers who attend formal training, in terms of the above.
- 1.3.5 Proof of compliance with the above requirements must be provided by the Contractor to the Employer prior to submission of the final payment certificate.

GENERIC LABOUR-INTENSIVE SPECIFICATION

1 Scope

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- a) trenches having a depth of less than 1.5 metres
- b) storm water drainage
- c) low-volume roads and sidewalks

2 Precedence

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this specification shall prevail.

3 Hand excavatable material

Hand excavatable material is material:

a) Granular materials:

- i) whose consistency when profiled may in terms of table 1 be classified as very loose, loose, medium dense, or dense; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;

b) Cohesive materials:

- i) whose consistency when profiled may in terms of table 1 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

Note:

- 1) A boulder, a cobble and gravel is material with a particle size greater than 200mm, between 60 and 200mm.
- 2) A dynamic cone penetrometer is an instrument used to measure the in-situ shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of. 60 degrees with respect to the horizontal) into the material being used.

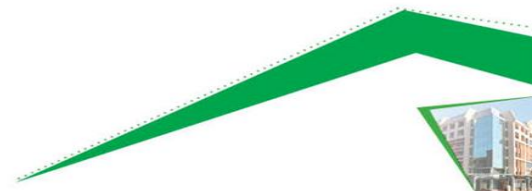


Table 1: Consistency of materials when profiled

GRANULAR MATERIALS		COHESIVE MATERIALS	
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION
Very loose	Crumbles very easily when scraped with a geological pick.	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle.
Loose	Small resistance to penetration by sharp end of a geological pick.	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.
Dense	Very high resistance to penetration by the sharp end of a geological pick; requires many blows for excavation.	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumb-nail' with difficulty; slight indentation produced by blow of a geological pick point.

4 Trench excavation

All hand excavatable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.

5 Compaction of backfilling to trenches (areas not subject to traffic)

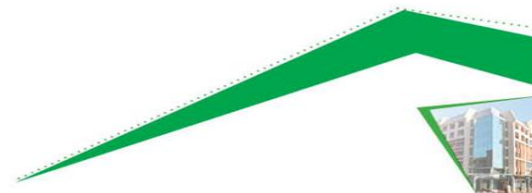
Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers

- a) to 90% Proctor density;
- b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or
- c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

6 Excavation

All hand excavatable material including topsoil classified as hand excavatable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand.

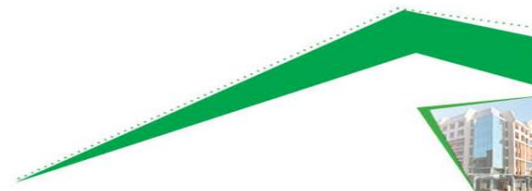
The excavation of any material which presents the possibility of danger or injury to workers shall not be excavated by hand.



- 7 **Clearing and grubbing**
Grass and small bushes shall be cleared by hand.
- 8 **Shaping**
All shaping shall be undertaken by hand.
- 9 **Loading**
All loading shall be done by hand, regardless of the method of haulage.
- 10 **Haul**
Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150 m.
- 11 **Offloading**
All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilised for haulage.
- 12 **Spreading**
All material shall be spread by hand.
- 13 **Compaction**
Small areas may be compacted by hand provided that the specified compaction is achieved.
- 14 **Grassing**
All grassing shall be undertaking by sprigging, sodding, or seeding by hand.
- 15 **Stone pitching and rubble concrete masonry**
All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must be collected, loaded, off loaded and placed by hand.

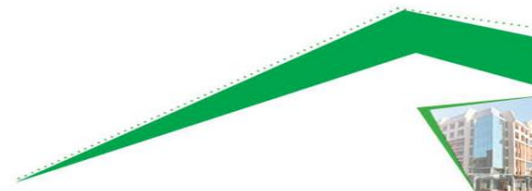
Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Grout shall be mixed and placed by hand.
- 16 **Manufactured Elements**
Elements manufactured or designed by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. In addition, the items shall be large enough so that four workers can conveniently and simultaneously acquire a proper handhold on them.



Annex A: Skills compliance plans (Normative)

Skills compliance base line plan		
Name of contractor:		
Contact person:	Telephone:	
Address:	Cell phone:	
	Email:	
Contract / order number:	Start date for contract / order:	
Contract title:		
Contract skills development goal (CSDG) (tick appropriate box)		
☐ Tendered / contracted CSDG = hours		
☐ Minimum CSDG calculated in accordance with standard		
Minimum CSDG calculated in accordance with the standard (complete only if applicable)		
Contract type (tick appropriate box):	Contract amount excl VAT	R
☐ professional service	Less expenses (if any)	R
☐ service	Less allowances	R
☐ engineering and construction works	Contract amount	R
CIDB Class of construction works, if applicable		
Contract amount expressed in millions of Rand R m ①		
Number of hours per million Rand expenditure from sub-clause 3.1.2 of the <i>Standard for developing skills that result in nationally accredited outcomes through infrastructure contracts</i> = ②		
Minimum contract skills development goal which the contractor is required to achieve (Gmin)		
= ① x ② = x = hours		
I intend achieving the CSDG as follows:		
☐ Method 1: structured work experience learning component opportunities towards a part or a full occupational qualification	 hours	
☐ Method 2: structured work experience learning opportunities for apprentices or other artisan learners	 hours	



☐ Method 3: work integrated learning opportunities for University of Technology or Comprehensive University national diploma students	 hours
☐ Method 4: structured work experience opportunities for candidates towards registration in a professional category of registration	 hours
Total	 hours

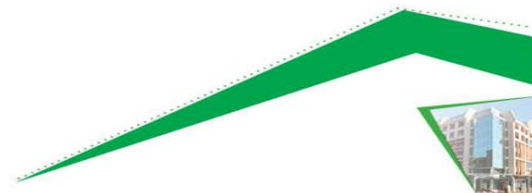
The undersigned, who warrants that he / she is duly authorized to do so on behalf of the Contractor, confirms that the contents of this plan are within my personal knowledge and are to the best of my belief both true and correct.

Signed

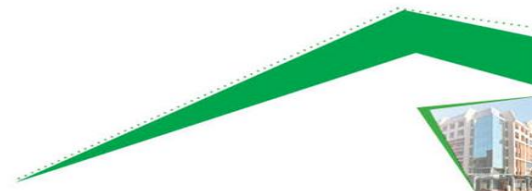
Date

Name

Position



Skills compliance report (tick appropriate box)					Date:			
☐ Final report					☐ Interim report			
Name of contractor:								
Contact person:					Telephone			
Address:					Cell phone			
					email			
Contract / order number:					Start date for contract / order:			
Contract title:								
Contract skills development goal (CSDG) hours								
Method 1: structured workplace experience learning component opportunities towards a part or a full occupational qualification								
Employed by contractor								
Name	Identity or passport number	Cell or telephone number	Part or full occupational qualification NQF ref. no.	Student number	SETA with whom learner is registered	Dates for engagement on work related to contract		Total hours
						Start	End	
Employed by subcontractor: (state name)								
Name	Identity or passport number	Cell or telephone number	Part or full occupational qualification NQF ref. no.	Student number	SETA with whom learner is registered	Dates for engagement on work related to contract		Total hours
						Start	End	
Method 2: structured work experience learning component opportunities for apprentices or other artisan learners								
Employed by contractor								
Name	Identity or passport number	Cell or telephone	Listed trade	National artisan learner data base	SETA with whom the	Dates for engagement on works related to contract		Total hours



		number		registration number (where available)	learner is registered	Start	End	

Employed by subcontractor: (state name)

Name	Identity or passport number	Cell or telephone number	Listed trade	National artisan learner data base registration number (where available)	SETA with whom the learner is registered	Dates for engagement on works related to contract		Total hours
						Start	End	

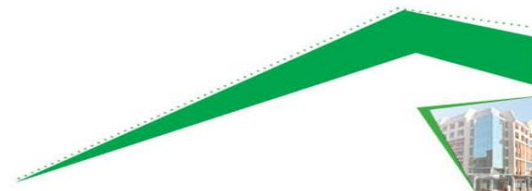
Method 3: work integrated learning opportunities for University of Technology (UOT) or Comprehensive University (CU) diploma students

Employed by contractor

Name	Identify or passport number	Cell or telephone number	Diploma	Learner registration number	UOT/CU with whom the learner is registered	Date for engagement on contract		Total hours
						Start	End	

Employed by sub-contractor

Name	Identify or passport number	Cell or telephone number	Diploma	Learner registration number	UOT/CU with whom the learner is	Date for engagement on contract	Total hours



					registered		

Method 4: structured work experience opportunities for candidates towards registration in a professional category of registration

Employed by contractor

Name	Identity or passport number	Cell or telephone number	Statutory council particulars		Dates for engagement on work related to contract		Total hours
			Title	Registration number	Start	End	

Employed by subcontractor

Name	Identity or passport number	Cell or telephone number	Statutory council particulars		Dates for engagement on work related to contract		Total hours
			Title	Registration number	Start	End	

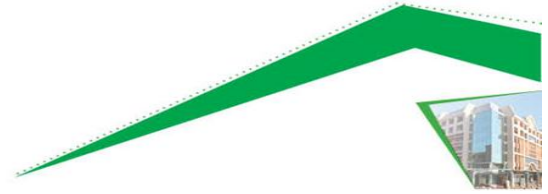
The undersigned, who warrants that he / she is duly authorized to do so on behalf of the Contractor, confirms that the contents of this plan are within my personal knowledge and are to the best of my belief both true and correct.

Signed

Date

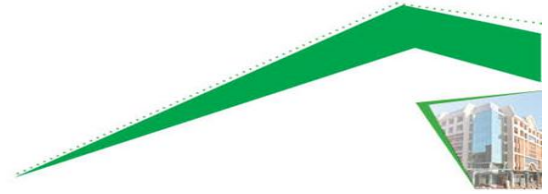
Name

Position



PART C2.3: BILLS OF QUANTITIES

(SEE ANNEXURE 2)



DRAWINGS (SEE ANNEXURE 3)

Annotations at end of description i.e. (San005) refer to the Architect's specification attached to the back of these bills of quantities. Tenderers are advised to study the Architect's specification for the full intent and meaning of the relevant item

PART 3 - LIST OF DRAWINGS – SEE ANNEXURE 3

The following drawings/annexure shall be issued during the bid period to form part of the bid documentation. Where applicable, drawings/annexure could be re-issued to the Contractor at commencement of the construction phase.

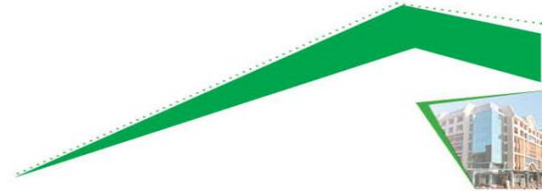
Contract drawings

Contract drawings – description	Number
Architectural Drawings (Refer to Annexure 4)	
Civil and Structural Drawings (Refer to Annexure 4)	
Electrical Drawings (Refer to Annexure 4)	
Mechanical Drawings (Refer to Annexure 4)	



PART C3

SCOPE OF WORKS



C3 SCOPE OF WORK

C3 Scope of Work

Project Name:	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
Tender No:	SCMU5-26/27-0051

C3.1 SCOPE OF WORKS

DESCRIPTION OF THE WORKS

The Scope of works mentioned below is for work to be done at Arcadia Senior Secondary School.

The construction elements of the new buildings comprise of electrical installation, mechanical installation, foundations, face brick & plastered walls, concrete surface slabs, timber & steel roof structures, galvanized profiled roof coverings, fascia's, etc.

Full external works comprise of roadworks, walkways, courtyards, stormwater drainage, sewer drainage reticulation, water reticulation, soccer/rugby field and netball court.

SMME subcontractor packages and EPWP formal training are integral to the contract. The contractor shall comply with all applicable national and provincial legislation, the JBCC Principal Building Agreement Edition 6.2, and the consulting team's specifications and drawings.

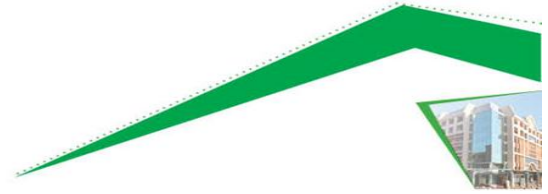
C3.2 METHODOLOGY OF PROJECT EXECUTION

Contractor will be given access to all works at date of Site possession.

Summary of Construction Works as Follows:

Phase One

- Demolition of the existing buildings and preparation of the site surface for new construction
- 10 Classroom block with Store (5 at Ground Floor and 5 at First Floor)
- 1 x Classroom block with Workroom and Music Room
- 10 Classroom block with HOD (5 at Ground Floor and 5 at First Floor)
- 4 Classroom block with Store (2 at Ground Floor and 2 at First Floor)
- 2 Classroom block
- 3 Classroom block with Store (At First Floor)
- 2 x Multipurpose with Work Room and Stores
- Library with 2 x Computer, 3 x Work Room and 3 x Stores
- Welding and Sewing Workshop
- Woodwork and Plumbing Workshop
- Hairdressing with, Presentation Room, CS Cookery Room, Workroom, Store, Female Ablutions and Male Ablutions and Paraplegic
- Dining and Nutrition Centre
- Administration
- Hall
- Guardhouse



- Male and Female Ablutions (For Leaners)
- Refuse Room
- Electrical Installation
- Mechanical Installation
- Parking Area
- Assembly Area
- Courtyard landscaping
- Security Fencing internally
- Water reticulation
- Landscaping
- Retaining Walls
- Sewer Drainage
- Netball Court
- Entrance Canopy

Phase Two

- Dismantle and load the existing temporary structures at Arcadia Secondary School following practical completion of the works. Transport the dismantled structures, including all associated components and materials, to a new site located within a 50 km radius of Arcadia Secondary School, as designated by the Department of Education.
- Rugby/Soccer Sport Field Landscaping, Rugby/Sport Field posts with and including Terrace seating
- Rugby/Soccer Sport Fiel Parking

C3.3 PROJECT REVIEW

- The work is to be executed in an existing school premises.

C3.4 RESTRICTIONS AND CONSTRAINTS

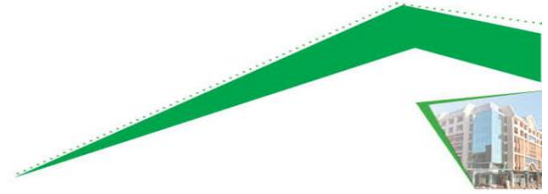
- Noise must be kept to a minimum and within acceptable levels at all times.
- Dust emanating from the site must be controlled at all times.

C3.5 OPERATIONAL PROTOCOLS

- The approved Health and Safety plan shall be adhered to at all times
- All staff members of the contractor shall wear PPE at all times
- All staff members of the contractor shall be specifically identifiable at all times and to this end shall wear a predetermined coloured overall to be able to enter and work on the site.
- Regular meetings, the frequency of which is to be determined, shall be held with the management of the school to always ensure a cohesive spirit of co-operation

C3.6 ACCESS AND SITE ESTABLISHMENT

- Prospective bidders are to fully familiarize themselves with the site and access to the site and restricted area for site establishment.
- Prospective bidders are to familiarize themselves with the site as no additional costs shall be entertained.
- Identified area for site establishment shall be pointed out to prospective bidders at mandatory site inspection. The contractor shall be liable for security, fencing, water, sewer, ablutions, electricity, etc. for the site establishment area. No Contractor's representatives, workers are allowed to sleep at establishment area or within school premises



C3.7 ACCEPTANCE OF TENDERS

- The Employer is not bound to accept the lowest, or any tender, or any portion of any tender

C3.8 MINIMUM WAGE

- The Contractor shall adhere to “The national minimum wage determined by the Minister in accordance with the National Minimum Wage Act (NMWA)”, and yearly pronounced increases for duration of contract.

C3.9 TEMPORARY WORKS

- All temporary work to comply with the Construction Health and safety Act (Act 85 of 1993) and its regulations.

C3.10 EMPLOYER'S DESIGN

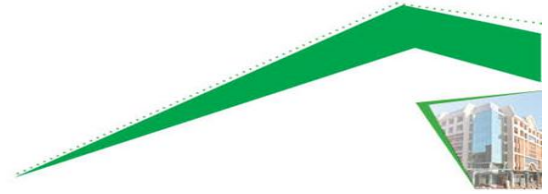
N/A

C3.11 DESIGN BRIEF

N/A

C3.12 DRAWINGS

- Refer to: *(Part C5 – Annexure 4)*



PART C4 – SITE INFORMATION



C4.1 SITE INFORMATION

Project title:	DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL
Project Number:	SCMU5-26/27-0051

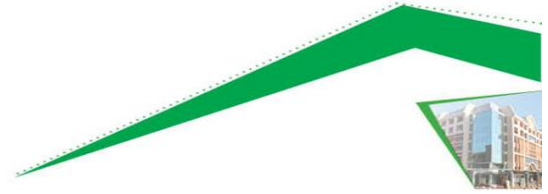
GENERAL

Prospective bidders to familiarize themselves with the locality, access, any other “restrictions”.

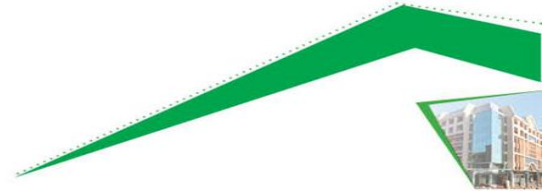
The site is located within the boundaries of the Arcadia Senior Secondary School, Bethelsdorp

Co-ordinates : -33.8779°S; 25.5207°E

Refer site layout drawing.



PART C5 – ANNEXURES



ANNEXURE 1

HEALTH AND SAFETY SPECIFICATION

DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL

Occupational Health and Safety Specification PROJECT: ARCADIA SENIOR SECONDARY SCHOOL



Date:	Name of CHSA	Name of Company
2024/06/15	Shaun Norris	SA H & S Agent and Trading

DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL

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DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL

1. INTRODUCTION

1.1 LIST OF ABBREVIATIONS

AIA	Approved Inspection Authority
BoQ	Bill of Quantities
CC	Compensation Commissioner
CHS	Construction Health and Safety
CHSA	Construction Health and Safety Agent
CR	Construction Regulations (Gazette 10113 of 7/02/2014)
DMR	Driven Machinery Regulations
DoL	Department of Labour
FEMA	Federated Employers Mutual Association
GAR	General Administration Regulations
GSR	General Safety Regulations
HIRA	Hazard Identification Risk Assessment
H&S	Health and Safety
LI	Labour Intensive
OH,	Occupational Health
OHS	Occupational Health and Safety
OHSA	Occupational Health and Safety Act No. 85 of 1993 (as amended)
OHSS	Occupational Health and Safety Specification
PSHSS	Project Specific Health and Safety Specification
PC	Principal Contractor
PPE	Personal Protective Equipment
ER	Engineer's Representative
RHCS	Regulations for Hazardous Chemical Substances
SANS	South African National Standards (Authority)
SMME	Small, Micro, Medium Enterprise
SWP	Safe Work Procedure

Date:	Name of CHSA	Name of Company
2024/06/15	Shaun Norris	SA H & S Agent and Trading

DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL

1.2 DEFINITIONS

The definitions used will be those set out in the Regulation Gazette No 10113 of 7 February 2014 with the following additions:

Client: Eastern Cape department of education

Engineer: Means a competent person appointed by the Client to design, supervise and monitor construction on their behalf.

Hazard: Source of exposure to danger

Hazard Identification and Risk Assessment (HIRA) and Risk Control:

Means a documented plan, which identifies hazards, assesses the risks and details the control measures and safe working procedures which are to be used to mitigate and control the occurrence of hazards and risks during construction or operation phases.

Construction Health and Safety Agent:

Means any person who acts as a representative for the Client in managing the overall health and safety work as their responsible person.

Health and Safety Plan:

Means a documented plan which answers to the Project Specific Health and Safety Specification; including all the supporting documentation that indicate how the Principal Contractor or Contractor plans to manage OHS for the duration of the Contract.

Induction Training:

Means once off introductory training on general health and safety issues given to all employees and visitors to the site before commencement of work on site.

Occupational Health and Safety Agent (CHSA):

A person appointed by the Client to carry out the duties of the Client in respect of Occupational Health and Safety on the Project in terms of Regulation 5 sub regs (5) and / or (6)

Risk: Means the probability or likelihood that a hazard can result in injury or damage.

Regulation/s: Shall mean the relevant regulation/s promulgated in terms of the Occupational Health and Safety Act, No. 85 of 1993.

Site: Means the area in the possession of the Principal Contractor for the construction of the works. Where there is no demarcated boundary, it will include all adjacent areas and haul roads which are reasonably required for the activities for the Principal Contractor and approved for such use by the Engineer.

The Act: Means, unless the context indicates otherwise, the Occupational Health and Safety Act, No. 85 of 1993 and Regulations promulgated thereunder, as amended.

1.3 KEY ROLE-PLAYERS

Date:	Name of CHSA	Name of Company
2024/06/15	Shaun Norris	SA H & S Agent and Trading

DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL

1.4 KEY REFERENCES

Occupational Health and Safety Act No. 85 of 1993 and Regulations (as amended)
Compensation for Injury and Occupational Diseases Act No. 100 of 1993 (as amended)
Committee of Land Transport Officials (COLTO) South African Roads Specifications for Road and Bridge Construction
South African Road Traffic Safety Manual (SARTSM) Chapter 2, Volume 13 of 1999
Road Traffic Safety Act No. 93 of 1996 (as amended)
Minimum Information Security Standards (MISS);
Minimum Physical Security Standards (MPSS);
Occupational Health and Safety Act (OHSA);
Control of Access to Public Premises and Vehicles Act;
Private Security Industry Regulatory Act (PSIRA);
Protection of Personal Information Act (POPIA);
ISO 31000, 2009: Risk Management □ Principles & Guideline
Regulations Relating to Minimum Uniform Norms and Standards for Public School Infrastructure (MUNSPI)
School Infrastructure Safety and Security Standards (SISSS)
National Building Regulations and Building Standards Act
NMBM Land Use Management Scheme: Community Zone 1 (Authority Use permitted as a primary right; no rezoning required)
Occupational Health and Safety Act 85 of 1993 and the Construction Regulations
Environment Conservation Act
Green building principles, including ceiling insulation and related passive measures

2. PREAMBLE

Arcadia Senior Secondary School is situated in the northern part of Gqeberha (formerly known as the Nelson Mandela Metropolitan) in the Eastern Cape Province. The school's address is 273 Rensburg Street, West End, Bethelsdorp. The site is on Erf 2199, Latitude: -33.877559" & Longitude: 25.520749".

The school, commissioned in 1973, was constructed using a combination of timber, concrete, and brick for high-security areas. The walls consisted of a timber stud frame clad with chipboard on both sides, which deteriorated over time and became difficult to maintain. The school comprised of ten blocks: three double-storey and seven single-storey buildings, severely damaged by vandalism and neglect. The school is severely damaged, and a new school will need to be commissioned.

The new school building will incorporate green building principles to enhance sustainability and environmental performance. These will include ceiling insulation to improve thermal comfort and reduce energy consumption, and sisalation installed under the roof pallets for enhanced thermal insulation. Low VOC paint will be used to minimize air pollution and health risks. All windows will be double glazed to reduce heat gain and improve energy efficiency, with shading provided to meet SANS regulations. These measures will contribute to a healthier and more sustainable learning environment for students and staff.

Each year fatalities and serious injuries mar the reputation of the Construction Industry. The client has a responsibility to limit such injuries by ensuring a zero-tolerance approach to Contractors and those affiliated to a particular project. The responsibilities that the Department and relevant stakeholders have toward its employees are

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captured in 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.

The department of facilities and infrastructure management western cape government health and wellness
The design team and its Construction Health and Safety Agent (CHSA) acting on its behalf, shall provide a project specific Health & Safety Specification (PSHSS) for the project and provide it to the Principal Contractor/s making a bid or appointed to perform construction work for the project, or parts thereof.

2.1 PURPOSE OF THE PROJECT SPECIFIC HEALTH AND SAFETY SPECIFICATION

The PSHSS is a performance specification to ensure that the Client and any bodies that enter into formal agreements with the Client, i.e. Engineers, Principal Contractors (PC) and Contractors, achieve an acceptable level of OHS performance. The Client has a zero tolerance to non-compliance and the endangering of the lives of workers, and the public, thereby being placed at risk.

No advice, approval of any document required by the PSHSS (i.e. hazard identification and risk assessment, action plans) or any other form of communication from the Client shall be construed as an acceptance by the Client. Nor shall such communication relieve or absolve the PC from any obligation or from achieving compliance with legal requirements. The PC remains responsible for achieving the required performance levels and must sign an OHSA S.37.2 mandatory agreement with the Client.

The PSHSS 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.

It should be noted that this PSHSS in no way relieves the Contractor of any of his responsibilities set out in the Act and Regulations.

3. IMPLEMENTATION OF THE OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION (OHSS)

This project specific PSHSS 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 PSHSS will be available for each level of Contract and Contractor and must be complied with. Failure to do so will be noted as a serious offense, and will result in a penalty, stoppage of part of, or the whole works, with no extension of time or allowable claims; this includes the submission of an approved health and safety plan

This specification must be read in conjunction with the OHSA, it's 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. is detailed in the tender document, is to be considered when developing the OHS plan and associated documentation. The detailed design risk assessment is included, as is a summary of risks identified as attached.

The OHSA S.37.2 Mandatory Agreement found in the Tender Document must be fully completed by the PC. These documents shall be deemed to form part of the returnable Contract Documents.

No work may commence without written approval of the OHS plan by the CHSA. Failure to comply with this requirement will result in a penalty, stoppage of part of, or the whole works, with no extension of time or allowable claims.

Should there be design changes, or change in the scope of works, an amended PSHSS may be issued. Where amended PSHSSs are issued, the PC will be required to ensure a resubmission of an amended OHS plan for approval. Further to this, the PC must ensure that a similar system must be implemented between all their Contractors.

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DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL

The CHSA will visit the project twice per month, or more frequently if deemed necessary to ensure compliance. All activities on the site and all appropriate documentation will be monitored and reported on to the Client, Engineer and PC. Non-conformances will be issued and penalties or work stoppage instructions will be issued where appropriate. Communication between the CHSA and the PC will be through the Engineer or Engineer's Representative (ER) as determined at the commencement of the project.

4. REQUIREMENTS AT AWARD STAGE

The successful Tenderer is required to submit a project specific OHS plan within 14 days of the tender award. The documentation submitted will be used to assess the competence of the tenderer, as required by the CRs, therefore the information submitted needs to be complete and as close as possible to the final product.

Adequate pricing for OHS is required, and the appropriate section in the BoQ is to be completed. Failure to do so could result in the Tender being regarded as non-responsive. The PC shall ensure the following information is submitted as part of the OHS plan, and consult with the CHSA regarding details and progress:

- A project specific OHS Plan in line with this project specification which will be subject to approval by the CHSA. This must include all supporting documentation as required to verify the OHS system;
- All the documentation which is required for the application of the permit from both the engineering consultants and the appointed contractor.
- A declaration to the effect that he has the competence and necessary resources to carry out the work safely in compliance with the Construction Regulations 2014;
- A valid Letter of Good Standing with the Compensation Commissioner or similar;
- Detailed technical method statements for approval by the ER and appropriate risk assessments and safe work procedures for approval by the CHSA:
 - Site establishment;
 - Clearing and grubbing;
 - Opening of services;
 - Construction of offices and facilities for site;
 - Emergency plan;
 - Appointments of the following, with the relevant CVs: Construction Manager: Construction Supervisor; Construction Health and Safety Officer: risk assessor: fall protection planner: first aider, and
 - An organogram of the site relationships showing at least the above appointments and legal references.
 - Take note the appointment letters of the persons who will form part of the CWP application will be the same persons the contractor appoints to manage the construction works and health and safety. **Note: if these appointments are different by the time construction start it will lead to a work stoppage until the DoL is updated of the changes.**

Further method statements are to be submitted prior to, and during the project which will require the approval of the ER before work on that aspect or activity can commence.

4.1 PRE-START UP ACTIVITIES

Once the OHS plan has been approved there may well be additional documentation that includes appointments, emergency arrangements or further method statements and risk assessments. The inclusion of such aspects for personnel or Contractors commencing work at this time is required to be approved and verified by the Engineer and CHSA. All workers must have medicals receive induction and be trained on the risk assessments for site establishment activities.

5 SPECIFIC PROJECT RISKS AND REQUIREMENTS

The Baseline Risk Assessment herewith is to be noted and should be considered when developing the OHS plan and associated documentation. The COLTO Standard Specification (among other) document was used to develop the

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DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL

HIRA, and the same reference format is used. Where risks are noted, further requirements may be specified. Identification of low or medium risks does not mean there is no risk involved. In depth HIRAs and management systems are required to limit as much risk as possible as required in OHSA. Requirements for OHS systems, standards, PPE etc. are noted (but are not limited to), and the management thereof should be included in the documentation.

Method statements, safe work procedures (SWPs) or similar, upon which the PC has based project HIRA, are to be used by key site staff for daily activities. Supervisors need to ensure the site; workers and the public are kept safe. The environmental issues may be included but will need to be approved by the Environmental Consulting Officer (ECO).

5.1 METHODSTATEMENTS

The contractor will draw up a statement method for each new activity wherein the contractor will list the method of construction, the persons responsible, equipment or plant and the material which will be used to complete the task. The contractor will then include the risk which is associated with every step of the method, materials, equipment or plant to complete the method statement. The numbering in the method statement and that in the risk assessment will be similar to trace the risk associated with the task.

6 DESIGN AND CONSTRUCTIONS DETAILS

6.1 SCOPE OF WORK

The proposed scope of works is the complete demolition of the existing dilapidated structures and the construction of a new double-storey school facility. The new classroom and administrative blocks are designed to comply with the Minimum Uniform Norms and Standards MUNSPI, featuring face-brick exteriors and aluminium windows for durability and low maintenance. The layout is designed to strictly adhere to SSSS to ensure natural surveillance and security.

The extent of work is as follows:

- Existing buildings to be Demolished: Approx. 3,000 m²
- New Educational Facilities (30 Classrooms, Admin, Hall, Specialist Rooms): 6,823 m²
- Area of Existing Utilised Site (Erf 2199): 68 699 m² (6.8699 Ha)

6.2 Demolition works

Demolition of the remaining vandalised structures of the original 1973 school and construction of a new double-storey senior secondary school with associated site infrastructure and external works. The appointed contractor will investigate to the if any of the demolition structures has asbestos and ensure compliance with the Asbestos regulation

6.3 Site considerations

The site remains occupied during construction. Seven prefabricated blocks (27 classrooms, 18 learner ablutions, 8 administrative offices, kitchen, staff room and 6 staff ablutions) stay in use, so decanting and phasing apply throughout the works. The appointed contractor must ensure the old school is fenced of securely to ensure none of the construction activities interfere with the daily operations of the existing school.

6.4 The new building will consist of the following facilities

Space	Qty	Unit area	Total
Classrooms	30	60 m ²	1 800 m ²

Date:	Name of CHSA	Name of Company
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**DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT
ARCADIA SENIOR SECONDARY SCHOOL**

Space	Qty	Unit area	Total
Science laboratory	2	80 m ²	160 m ²
Computer room	2	80 m ²	160 m ²
Multipurpose classroom	2	80 m ²	160 m ²
Library / media centre	1	130 m ²	130 m ²
Technology	1	80 m ²	80 m ²
Creative arts (arts & crafts)	1	80 m ²	80 m ²
Music room	1	80 m ²	80 m ²
Consumer studies	1	160 m ²	160 m ²
Hairdressing	1	80 m ²	80 m ²
Woodwork and Plumbing workshop	1	180 m ²	180 m ²
Welding and Sewing workshop	1	180 m ²	180 m ²
Subtotal			±3 250 m²

Space	Qty	Unit area	Total
Dining area	1	120 m ²	120 m ²
Food store	3	12 m ²	36 m ²
Kitchen	1	15 m ²	15 m ²
Refuse area	1	15 m ²	15 m ²
Scullery	1	12 m ²	12 m ²
Subtotal			±198 m²

Space	Qty	Unit area	Total
Admin office	1	20 m ²	20 m ²
Reception	1	15 m ²	15 m ²
Principal's office	1	20 m ²	20 m ²
Deputy principal's office	2	15 m ²	30 m ²
HOD office	6	15 m ²	90 m ²
Staff room	1	60 m ²	60 m ²
Staff kitchenette	1	12 m ²	12 m ²
Sick room	1	15 m ²	15 m ²
Counselling room	1	15 m ²	15 m ²
Printing room	1	15 m ²	15 m ²
Storage area (admin)	1	15 m ²	15 m ²

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Space	Qty	Unit area	Total
Strong room	1	10 m ²	10 m ²
Subtotal			±317 m²

Space	Qty	Unit area	Total
Multipurpose hall	1	500 m ²	500 m ²
Tuck shop	1	15 m ²	15 m ²
Facility maintenance and store	1	15 m ²	15 m ²
Caretaker room	1	12 m ²	12 m ²
Security room / guard hut	1	12 m ²	12 m ²
Storage per classroom and teaching area	Per SDP		12 m ² each
Refuse / recycle area (general)	Per SDP		±15 m ²
Subtotal			±554 m ²

External works and site infrastructure

- Covered walkways and assembly area
- Recreational and sports fields / courts, with changing rooms
- Parking per post establishment
- Food garden
- Concrete aprons and stormwater channels
- Wheelchair ramps and handrails
- Flag poles (2) and school signage
- Grade A high-security fencing and security gates

Services and installations

- Water: reinstatement of municipal water main connections (existing connections severely damaged)
- Sewer: reinstallation of sewer lines to the municipal mains (existing lines severely damaged)
- Electrical: Eskom supply is functional, but reticulation cabling has been stolen and must be replaced; flood/exterior lighting, emergency lighting, intercom / PA system, alarm system
- Fire: fire hose reels, fire extinguishers and hydrants: none currently on site
- Stormwater: rainwater downpipes, gutters and stormwater channels
- Security: burglar bars, security gates, alarm system

7. APPLICATION FOR CONSTRUCTION WORK PERMIT

The client, designer and contractor will provide the CHSA with the necessary documentation to compile a file for the application of the work permit from the Eastern Cape department of labor. The contractor will provide the CHSA with the appointment's letters, CVs, and proof of competence in similar projects for the construction manager CR (8.1) and the construction health and safety officer CR (8.5) and ensure the persons details which is supplied on the Annexure 1, are the same persons who will be onsite when the permit is obtained.

Where changes to the conditions given in the submission are required (i.e. other Contractors, completion dates, increase in workers), a revised Annexure A must be submitted to the Department of Labour. It is preferable that the

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completion date includes the defect liability period. A copy of the notification form and any further submissions must be kept in the OHS file.

The department of labour requires 30 days to process information supplied to issue the Construction Work Permit (CWP)

8. HEALTH AND SAFETY PLAN FRAMEWORK

The aspects related to the project outlined in the previous sections are to be considered when drawing up the OHS Plan. The PC is required to demonstrate competence by providing an OHS system that will address the requirements of the project.

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

The PC must include an organogram showing all appointments and responsibilities on site. This must include names of personnel where possible. Names, positions and appointments must be kept up to date as the project progresses.

The PC is to prepare one or more site office area layout drawings to indicate at least the following:

- positions of emergency personnel and equipment at the site camp, or each fixed working area;
- traffic routes for plant and pedestrians, parking;
- storage areas (flammable stores, materials etc.), and
- High risk areas (noting the risk and product or physical risk, e.g. depth of excavations or where PPE is required).

Such drawings could be the similar as those required by the ECO. Such layouts are to be updated regularly throughout the project and displayed for communication purposes or provided to affected parties.

8.1 Appointment of competent site personnel

The CEO (OHS S16.1 or appointed S16.2) of the PC will take overall responsibility for the appointment of competent site staff for the duration of the project.

Knowledge and training in OHS is required, and certificates indicating OHS 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 CHSO is kept up to date with all planned activities, to ensure all OHS 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 CHS Officer

The CHS Plan shall include the following, but not be limited to the following key appointments:

8.1.1 Construction management

Competent construction managers who are appointed to manage part or all the works must have had training and/or experience in their area of responsibility. All site supervisors must show evidence of basic training in OHS, and an understanding or training in areas of responsibility (i.e. risk assessments, method statements etc.).

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Multiple, competent Assistant Construction Managers may be appointed where justified by the scope and complexity of the works. Curriculum Vitae (CVs) are to be submitted for approval by the Engineer, CHSA, and/or Client. Each supervisor will be held responsible for the safety of working teams and subordinates, housekeeping and stacking and storage of materials in their area.

8.1.2 Construction supervisor

The Principal Contractor shall, in writing, appoint competent Construction Work Supervisors for each project. The appointed supervisors shall be responsible for overseeing construction activities and ensuring compliance with all applicable occupational health and safety requirements on the respective construction sites.

8.1.3 Construction health and safety officer

The PC will employ at least one competent, full-time CHSO for the duration of the contract. The CHSOs CV is to be submitted for approval by the Engineer as well as the CHSA, prior to placement on the project. The PC is to ensure adequate resources are provided to undertake all responsibilities (i.e. mobile phone, computer and internet access, vehicle etc.). The incumbent should fulfil the requirements for registration in 1, or other category as determined by the South African Council for Project and Construction Management Professionals (SACPCMP) as legislated. CHSOs require a minimum of two years exposure to Civil Engineering Construction in such a capacity. Professional Indemnity (PI) may be required. All efforts for registration of the CHSO must be made if not yet registered.

The CHSO must have the competence to evaluate the Contractors Health and Safety plans, must hold a valid driver's license and may not hold any other position on the site staff.

The Construction Supervisor assisted by the CHSO will be held responsible for all OHS on the project. Senior site staff and supervision, Contractors are to follow systems, instructions etc. always given by the CHSO. No new workers or Contractors may commence work without approval or following the OHS plan as submitted. Failure to do so will be considered a serious offence.

The CHSO may be the same person as the Traffic Safety Officer, if in possession of the competencies. If not, a supervisor but will be responsible for ensuring that daily traffic management is adequately managed throughout the project.

The CHSO will be held responsible for all OHS on the project.

- Senior site staff and supervision, Contractors are to follow systems, instructions etc. always given by the CHSO;
- No new workers or Contractors may commence work without approval or following the OHS plan as submitted, and
- No inductions of Contractor staff until the OHS documentation is approved by the CHS Officer.
- The CHS Officer/s may not be removed or replaced without the approval of the CHSA, nor may the site be left unattended for more than 1 day without adequate, competent cover.

A close out meeting will be held at the end of each formal audit by the CHSA, and findings will be issued in the form of site instructions. Senior site staff will be obliged to attend the close out meeting.

A monthly report of all OHS activities and incidents are required by the end of the first week of each month, or at a date agreed to by the CHSA and the CHS Officer.

Internal audits of own and Contractor's documentation are to be completed relative to the risk of the work, and irrespective of duration on site. Short term contractors and suppliers are to be audited.

The CHSO will be responsible for collating the OHS documentation (electronically) at the close out of the project. A list of the typical aspects that should be provided is available as an Annexure to this document.

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8.2 HEALTH AND SAFETY REPRESENTATIVES AND COMMITTEE

H&S Representatives are to be appointed following the start-up of the project, to be made up from both permanent and Contractors or local labour. Representatives from local labour can be appointed to represent such labour for the duration of the contract. OHS Representatives are to be actively involved and serve on the OHS Committee.

The CHSO shall ensure there is an OHS Committee made up of active site staff and OHS Representatives, representing each work area, including all Contractors. Meetings will be held at least monthly, and more frequently if so instructed. Key site staff are to be appointed. Issues arising from the CHSA audits are to be discussed, as well as all OHS related issues.

Minutes are to be distributed and discussed among all workers and Contractors and records kept thereof. Failure to do so will be deemed to be a moderate offence.

8.3 APPOINTMENT OF COMPETENT CONTRACTORS

The Principal Contractor is to ensure compliance with at least the Client's minimum standards and all legislative requirements. The same OHS 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 always updated. The PC is to ensure there is sufficient funding for OHS compliance by each Contractor.

The following minimum aspects are applicable to any Contractor appointed:

- The CHSO is to ensure a contractor's appointment and approval of OHS 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. However, such Contractors will not be able to commence work until proof of registration or Letter of Good Standing has been received.
- No work may commence without Mandatory (37.2) agreements between parties in place.

The following aspects are applicable to Suppliers or short-term works (I, Major repairs, servicing, Bulk deliveries etc). Cognisance is to be taken of the level of risk involved and the CHSO is to ensure the level of OHS documentation is appropriate:

- Mandatory agreements in place
- Letter of Good Standing
- Available information relative to:
 - Load testing and registers for cranes or lifting devices
 - Medical certificates of fitness
 - Safety data sheets (SDSs)

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

9. GENERAL RISK MANAGEMENT

9.1 HEALTH RISKS AND MEDICAL SURVEILLANCE

The specified products have been listed above. As some products have not been identified, the PC is to ensure the CHSO and all supervision is responsible for ensuring the safe use of such products, and their inclusion into method statements and risk assessments. The appropriate SDSs are to be obtained for all products and used to develop OHS documentation as they relate to the works.

Ergonomic risks are to be noted, especially where there are LI components, and all workers (including those of Contractors) are to be included in the medical surveillance programme.

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Workers will be exposed to noise, dust, volatiles and vibration (whole body and upper body) due to the type of plant, 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 relevant to their duties prior to commencing work and completed Annexure 3s will be acceptable as proof thereof.

All workers (including Contractors) are required to be in possession of a medical certificate of fitness prior to commencing work. Annual medical surveillance is required (unless identified as being required more frequently), or an exit medical if period of work is longer than 6 months. Arrangements for keeping medical records for the required time are to be noted. It is mandatory that the PC has a medical surveillance plan. Only fitness certificates are to be kept in the OHS file; Full medical records are not to be placed in the OHS file. A procedure for managing the medical records which require safekeeping for prescribed periods are to be addressed. Only suitably qualified, compliant service providers may be used for medical surveillance.

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

- Audiometry (hearing tests);
- Spirometry (lung function testing);
- Any other tests identified as relevant

Failure to do so will be considered a serious offence.

9.1.1 Noise Risks

All plant and equipment are to be measured for noise levels as soon as most of the plant is on site (including Contractors). Findings are to be discussed at the OHS Committee and OHS Representatives and Supervisors are to ensure that noise zones are identified and wearing of PPE in them is enforced. All plant brought in by plant hire companies is to be compliant with the Noise Induced Hearing Loss Regulations.

Audiometric testing of all workers is to be included in the medical surveillance programme. Double audiometric testing at pre-employment and single tests thereafter is required. These should be repeated annually and as part of the exit medical. Audiometry records are to be available in the OHS file and to be provided to the workers on leaving the project.

Suitable SANS approved hearing protective equipment shall be issued and worn. Where several items of construction plant are in operation at or near to each other, the noise zone for the combined plant should be established and suitable hearing protective equipment used within this zone.

Failure to do so will be considered a serious offence.

9.1.2 General Environmental Conditions

Compliance with the Environmental Regulations (as amended), among others is required. Environmental monitoring of ventilation, lighting and dust may be deemed to be required by the Approved Inspection Authority used to measure the environment. Copies of the relevant reports and actions taken in respect of these are to be placed in the OHS file.

Any spillages of substances which could be toxic to persons must be dealt with adequately. The Contractor must include his spillage removal system in the OHS Plan.

9.2 EMERGENCY PROCEDURES

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Attention to emergency planning and procedures is very important. The full emergency plan must form part of the supporting documentation with the OHS Plan. The CHSAs approval of all emergency plans and procedures 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 be identified. All information to be visually displayed and available to all those on site and included in the induction programmes.

First aider shall be available, and a first aid kit be available to respond to any emergency on the project. The available emergency services at the hospital must be researched and the contact details of the contact persons or units must be captured within the emergency plan. The risk associated with the scope of work must be evaluated and the type of possible serious injuries identified. The CHSO is to establish contact and ensure appropriate emergency responders.

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

- Appointment of a competent emergency response co-ordinator and wardens;
- Lists of first aiders, and
- Requirement in terms of identified risks:
 - Fire;
 - Explosions;
 - Falls from heights, and
 - Public Injury motor vehicle accidents.
 - Serious injury to workers (Medical or work related)
 - Fall into water;
 - Large Volume of water forced down stream into works area
 - Any other major risks identified during risk assessments.
 - Where applicable (i.e. Heights or water), the rescue procedure is to be included in the Emergency Preparedness Procedure and fall protection plan.

9.2.1 First Aiders and First Aid Equipment

Competent, trained First Aiders are to be formally appointed for the project. At least 2 workers are to be trained to level 3. First aiders are to always be available and be able to cover each working team. Further first aiders from the community or SMMEs, if not already accredited, are to be sent for accredited first aid training. Contractors are expected to ensure compliance and manage their own first aiders and equipment at least Level 1 training required.

The PC shall provide an on-site First Aid Station with first aid facilities, including first aid boxes containing, at least the requirements of manage the type of emergencies identified.

9.2.2 Fires and Emergency Management

Attention to emergency planning and procedures is very important. The full emergency plan must form part of the supporting documentation with the OHS Plan. The CHSAs approval of all emergency plans and procedures 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 be identified. The emergency plan must include local service providers where possible. Such arrangements should be made with these persons prior to the commencement of the project. A hierarchy of control must be available and practiced as part of the emergency procedure.

First aiders shall be available in each emergency team and be able to work as a team when responding to any emergency on the project.

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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 and wardens;
- Lists of first aiders, and
- Requirement in terms of identified risks:
 - Fire;
 - Explosion of gas cylinder
 - Fall and trip
 - Excavations
 - Falls from heights when installing score boards
 - Motor vehicle accidents.

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. Their position is to be shown on the sketch plan of the site.

9.2.3 Incident Management and Compensation Claims

The PC will ensure there is a management system to investigate all incidents. All serious incidents involving any form of disabling injury or fatality are to be reported to the Engineer and CHSA telephonically immediately. This shall be confirmed in writing as soon as possible after the incident. Full details are to be included in the OHS meetings, and each site meeting. The details are also 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.

9.3 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 always is non-negotiable. The PC shall ensure that all workers (Including Contractors) are issued with and shall wear as required; the first 3 items are mandatory for all workers:

- Hard hats; (only in areas where head injuries are most likely to occur)
- Protective footwear;
- Reflective jackets (no bibs)
- Overalls that ensure worker visibility (as per the SARTSM)
- Eye protection;
- Hearing protection;
- Respiratory protection (minimum of FF2), and
- Any other necessary PPE identified from SDSs and/or risk assessments.

Adequate quantities of PPE shall be always kept on site. This shall include necessary PPE for visitors. The procedures for managing PPE are to be in a formal procedure submitted with the OHS plan for approval; this must include the company policy on the issue and replacement of PPE

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

The Contractor shall carry adequate stocks of Hi-visibility Jackets and hard hats for visitors

Failure to comply will result in penalties being applied.

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9.4 OCCUPATIONAL HEALTH AND SAFETY SIGNAGE

On-site OHS signage is required. Signage shall be posted up at the appropriate fixed or temporary working areas, on scaffolding, and other potential risk areas/operations including vehicles. 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 signage is required.

Signage is to include (but not be limited to) the following:

- 'No unauthorised entry';
- "Warning, Construction site – Keep out" or similar.
- 'Report to site office';
- 'Site office';
- 'Hard hat area' or other PPE requirements noted.
- First aid box positions (including vehicles), and
- Fire extinguishers

Signs shall be posted permanently or temporarily at areas of work onsite indicating that a construction site is being entered and that persons should take note of safety requirements.

The Contractor shall establish a system for controlling and recording entrance to the Site office and camp area.

9.5 INDUCTION OF EMPLOYEES AND VISITORS, GENERAL OHS TRAINING

A formal induction programme is to be submitted as an addendum for approval with the OHS plan. Inductions must be carried out for all workers and visitors to the site. Pre-task training is required to ensure workers are familiar with the risks and OHS measures of the work or tasks to be done. Such training is to be done at least daily. Records of inductions and pre-task training are to be kept in the OHS file.

Any person found on site without proof of induction in the OHS File must be removed from site until the proof is supplied and, and penalties may be issued for non-compliance.

9.6 TEMPORARY WORKS AND ACCESS SUPPORT WORKS

Where temporary works are envisaged on the project, these must be properly designed and signed off/approved by a competent person. In these instances, a competent person is as defined in the Construction Regulations, as a Professional Engineer (registered with ECSA) 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. Where the scaffolding, and /or support work is to be supplied and designed by a specialist company, care must be taken to comply with all the requirements of the supplier. Records and registers are to be properly completed and kept in the OHS file. A fall protection plan is to be available and supplied as an addendum to the OHS plan. The fall protection plan must be appropriate for the project. Method statements, appropriate risk assessments, safe work procedures and training are to be available prior to work commencing.

Construction drawings shall be required for all temporary structures as they relate to the project. The drawings shall be accompanied by full calculations, design loads and any relevant test results as required by the SANS code and ensure adequate allowance for the development of appropriate documentation and training. All drawings are to be checked and signed by a competent structural engineer (registered with ECSA).

The focus for working at height shall include fall restraint systems where possible except during assembling or

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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 OHS 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 road uses are to be always protected by way of hoarding, barricading or fencing

9.6.1 Working at height

The construction of the guardhouse necessitates the implementation of a comprehensive fall protection and fall arrest plan in accordance with the project scope. Prior to commencing any work, it is imperative to formulate a working at heights fall protection plan, inclusive of a fall arrest plan, developed by a qualified professional. A competent individual, as per Unit Standard 229994, is required to develop a practical site-specific fall protection plan in accordance with CR 10. This plan must be submitted to the client appointed CHSA for evaluation and approval. A meticulous risk assessment must be conducted to identify and address potential hazards related to working at heights, including but not limited to falls, unstable surfaces, and adverse weather conditions.

To uphold safety standards, it is essential that all workers undergo thorough training and demonstrate competence in working at heights. Additionally, any ladders utilized must meet the SABS approved standards to ensure the safety of personnel during the project. Employees required to work at heights must be declared medically fit by an occupational health practitioner, and medical certificates must be obtained before commencing work at heights. The appointment of a competent person responsible for erecting, supervising, and inspecting scaffolding is crucial to ensure compliance with SANS 10085 standards. Additionally, fall arrest and fall protection equipment must be on-site and subjected to regular monitoring.

9.7 Portable Electrical Tools, Explosive Actuated Fastening Devices and use of Radioactive equipment

The Principal Contractor shall ensure that use and storage of all explosive actuated fastening devices and portable electrical tools follow relevant legislation. The Principal Contractor shall ensure that all-electrical tools, electrical distribution boards, extension leads, and plugs are kept in safe working order. Regular inspections and toolbox talks must be conducted to make workers aware of the dangers and control measures to be implemented e.g. personal protection equipment, guards, etc.

The Principal Contractor shall consider the following:

1. A competent person undertakes routine inspections and records are kept;
2. Only authorized trained people use the tools;
3. The safe working procedures apply;
4. Awareness training is carried out, and compliance is always enforced; and
5. PPE and clothing are provided and maintained.
6. A register indicating the issue and return of all explosive round;
7. Ensure that the cartridges and explosive tool are locked up separately
8. Signs to be posted up in the areas where explosive powered tools are being used. **(WARNING - EXPLOSIVE ACTUATED FASTENING DEVICE IN USE - KEEP CLEAR).**

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The use of radioactive equipment for the measuring of compaction parameters shall conform to the requirements of the "Code of Practice for the safe use of soil moisture and density gauges containing radioactive sources" as published by the Department of Health: Directorate: Radiation Control Soil revised September 2001. Method statements, risk assessments and the appropriate training will be required.

Failure to do so will be considered a serious offence.

9.8 General Machinery

The Principal Contractor and relevant Subcontractors shall ensure compliance with the Driven Machinery Regulations, which include inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE or clothing, and training those who use machinery

9.9 Ladders and Ladder Work

The Principal Contractor shall ensure that all ladders are inspected monthly, are in good safe working order, are the correct height for the task, extend at least 1m above the landing, fastened and secured, and at a safe angle. Records of inspections must be kept in a register on site. Sub-Contractors using their own ladders must ensure the same. Ladders shall not be used as horizontal walkways or as scaffolding. Tools or equipment must be carried in suitable slung containers or hoisted up to the working position.

9.10 MANAGEMENT OF PLANT AND EQUIPMENT

Large plant and equipment will be used. Close control of the PCs plant and equipment is required, including that of Contractors.

Daily monitoring of all plant and equipment is required prior to commencing work. Full lists of hired and own plant are to be available at the CHSA's audit. All daily inspection records are to be kept in the OHS file. Plant hire or haulage Contractors are to comply with the requirements and comply with all OHS standards for the project.

Only competent, fit plant operators are to be used. Noise levels are to be displayed on plant. Should any form of lifting device or crane (fixed or mobile) be used during the project for deliveries, moving of supplies or equipment, the appropriate documentation must be made available. 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 OHS Plan.

Any plant or slings used to lift plant or material require annual load testing by an AIA. Operators are to be adequately trained and certified to operate cranes. Certificates and registers are to be placed in the OHS file.

Movement of plant in closures and in confined working areas is to be closely monitored and managed by the TSO and supervisors. The blind spots of plant are to be considered and workers and Contractors protected accordingly.

Failure to do so will be considered a serious offence.

9.11 Excavations

A competent person is to be appointed to manage excavations. All equipment and conditions are to be checked daily prior to work commencing. Communal registers for excavations on site are not permitted. Excavations should preferably not be open beyond what can be worked daily. Where excavations need to remain open, all excavations

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are to be properly protected, candy striped tape is not acceptable. Plastic mesh supported on adequate droppers 1m high should be used (approved by the Engineer).

Failure to do so will be considered a serious offence.

9.12 Inclement weather

The contractor is to use logical thinking as to the weather condition on each individual day, Taking into consideration the windy conditions within Port Elizabeth, extreme cold and hot days. Workers are at greater risk of heat exhaustion where the discomfort index rises above 100. A weather station has been allowed for to monitor temperature and humidity specifically. Should the discomfort index rise above 105, work may be partially or totally stopped.

Failure to manage specific conditions or address issues timeously will be considered a serious offence.

9.13 Health & Safety Audits, Monitoring and reporting

The Client will conduct monthly health & safety audits of the work operations including a full audit of physical site activities as well as an audit of the administration of health & safety. The Principal Contractor is obligated to conduct his own audits similar audits and, on all Subcontractors, appointed by them. Detailed reports of the audit findings and results shall be reported at all levels of project management meetings/forums. Copies of the Client audit reports shall be kept in the Primary Project Health & Safety File and copied to all concerned. The Principal Contractor audit reports shall be kept in their file, a copy being forwarded to the Client. Subcontractors must audit their subcontractors and keep records of these audits in their health & safety files available on request.

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

9.14 Occupational Health and Safety Signage

The Contractor shall provide adequate on-site OHS signage. Including but not limited to, no unauthorized entry, report to project site office, beware of overhead work, hard hat area and contact details of the Principal Contractor. Signage shall be posted up at all entrances to site as well as on site in strategic locations e.g. access routes, stairways, entrances to structures and buildings, scaffolding, and other potential risk areas/operations.

9.15 Care of workers on site (welfare)

Adequate toilets, clean, safe drinking water and decent shelter will always be afforded workers.

Toilets will be within reasonable distance of workers, or placed with each working team in safe, with reasonable privacy. Only bacterial or enzyme-based products may be used in portable toilets; the use of products containing formaldehyde is not allowed. The ratio of portable toilets on site will be a minimum of 1:10. Daily cleaning and increased removal of waste may be required if deemed necessary. Proof of safe disposal of waste will be required. Waste removal Contractors, or the PC are to ensure the appropriate OHS systems are available to limit exposure to sewage.

Hand washing facilities will be provided. The Environmental and Facilities Regulations will be always adhered to.

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

9.16 Discipline, alcohol and substance abuse

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All employees (management included) are to follow instructions given in the interest of OHS. Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

No person is allowed to work or access site if under the influence of alcohol or other substances that could impact on their own or others safety. The PC is to have a drug and alcohol policy available to manage such instances.

These requirements are applicable to any employee of any organization providing services on site. Penalties may also be applied by the Client, CHSA or Engineer.

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

9.17 Electrical equipment

In addition to the requirements of the Electrical Machinery Regulations and the General Machinery Regulations any electrical distribution board used for construction work shall be fitted with suitable earth leakage protection. Leads must be properly and firmly connected. Plugs and sockets shall be in good and safe condition.

All electrical apparatus, other than electrical hand tools, shall have a physical "lock out" system which will prevent any operation other than that authorized by a supervisor. A "lock out" sign shall be displayed when the apparatus is not in use.

Method statements and safe work procedures will be required for all work involving electrical apparatus.

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

10. HEALTH AND SAFETY FILE

The documentation submitted and approved following the awarding of the contract will be used to form the OHS file. The OHS 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):

- The PSHSS;
- The OHS Plan;
- Appointment by Client;
- Mandatary 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, Mandataries etc.;
- Record of Competencies;
- Training Records.
- Permits;
- Method statements;
- Risk assessments;
- Safe work procedures;
- Emergency and injury management;
- Safety Data Sheets.
- Medical surveillance records;
- Registers, and
- Records of audits, minutes etc.
- Plant lists
- Temporary electrical installations
- Employee records (who is on site)

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10.1 SUPPORTING DOCUMENTATION

The following list is not absolute, and the PC is expected to assess if further any further information should be submitted as supporting documentation, as it relates to the OHS plan. The inclusion of other, relevant documents is encouraged.

All documents as required by the Act and Regulations, including (but not limited to):

- Proof of registration with the Compensation Commissioner or FEMA;
- Proposed Organogram;
- Appointments under the Regulations;
- Examples of internal audits;
- Inspection registers of plant and equipment;
- Non-conformance system;
- Information relating to hazardous materials used and stored on site with SDSs;
- All Method Statements, Hazard Identification and Risk Assessments for the project;
- All Health and Safety Plans for the project;
- Examples of minutes of all relevant meetings related to OHS;
- Registers for all plant and equipment
- Incident records, including investigations and results, and
- Medical certificates of fitness and medical surveillance programme.

The OHS File shall close out following the hand-over of the project. A list will be made available, and the contents will be agreed to between the CHSA and the PC towards the end of the project.

11.1 FAILURE TO COMPLY WITH PROVISIONS

Taking into consideration the site falls within an existing school which need to function, and no construction activities must interfere with the day to day running of the school. The PC will ensure compliance to ensure the safety of the school staff and visitors. Failure or refusal on the part of the contractor to take the necessary steps to ensure the safety of workers and the public in accordance with these specifications or as required by statutory authorities or ordered by the engineer or the Client's CHSA, shall be sufficient cause for the engineer to apply penalties as follows:

- (i) An appropriate penalty will be determined by the engineer to be deducted for reoccurrence of non-compliance with any of the requirements of the PSHSS.

ANNEXURE A

Permit requirements

Design requirements		
A	Health and safety Site Specification	
B	Baseline Risk Assessment	
C	Letter confirming project amount	
D	Designer appointment & ACCEPTANCE LETTER	
E	Survey report	
F	Additional design reports	
G	Geotechnical report	
H	Technical Design Drawing	

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I	Detailed Design Report	
J	Declaration that H&S was considered during design	
CHSA requirements		
K	CHSA appointment & acceptance letter	
L	CHSA SACPCMP Prove of registration	
M	CHSA CV of Shaun Norris	
N	CHSA copy of Identification	
Contractor requirements		
O	Letter confirming a H&S spec included in the tender document	
P	Appointment of Principal Contractor & acceptance Letter	
Q	Letter of Good standing	
R	ANNEXTURE 1 application for permit to do construction	
S	Section 37.2 Agreement between the Client & Principal Contractor	
T	Site Organogram	
U	Approved Health and safety Plan	
V	Principal Contractor Baseline risk assessment	
W	Covid plan & risk assessment	
X	Contractor BOQ, including covid-19 pricing	
Y	Appointment: 16.2	
Z	Appointment: 8.1	
Z 1	Appointment: Health & Safety management ,8(5)	

ANNEXURE B

CLOSE OUT REQUIREMENTS

The OHS 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 CHSA 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 CHSA 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 OHS Specification
- b) Principal Contractor's OHS Plan(s)
- c) Organograms
- d) Legal Appointments
- e) Notification to Department of Labour of commencement of work

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- f) Letters of Good Standing for the Project
- g) Full files for all Contractors as well as their close out reports
 - List of Contractors
 - Letters of Approval of Contractors
 - Mandatary Agreements
 - Letters of Good Standing
 - Appointments
- h) Incident Records
- i) Non- Conformance records
- j) Agent's Audits
- k) Method Statements
- l) Risk assessments
- m) Safe work procedures
- n) Medical surveillance certificates of fitness. Medical records are to be kept according to the OH&S Act as amended.
- o) All drawings for temporary structures (suspended beams/scaffolds etc)
- p) Copies of test results, policies and procedures for environmental monitoring (silica, noise, dusts etc.)

Defect and Liability Period

The OHS 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 OHS file by the CHSA prior to any work commencing.

Norris Health and Safety service
23 Van Plettenberg Street
Kabega Park
Port Elizabeth
Phone: 0824693974
Email: shaun@norrihs.co.za

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DESIGN RISK ASSESSMENT											1	4	12
DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF A NEW EDUCATIONAL FACILITY AT ARCADIA SENIOR SECONDARY SCHOOL											2	6	18
Start Date : 2026/08/10 Compiled by Shaun Norris													
Risk Rating multiplier: Low = 1; Medium = 2; High = 3											3	8	27
REF	DESIGN ASPECTS PRESENT	DESCRIBE THE METHODS AND ACTIVITIES USUALLY PROVIDED BY THE CONTRACTOR	Baseline design risk				EXTRA CONTROL MEASURES NECESSARY TO REDUCE RISK/ REDESIGN	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	Residual risk		
			LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND RISK CATEGORY					LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM
OHS Act/ CR/ CHSS	Principal Contractor not submitting the required documentation timeously. Incompetent person preparing the OHS File.	The cotractor must appoint procure compatannt construction manager , supervisor and a health and safety officer for the management of health and safety throught construction and close stage of the project	3	2	2	12	The contractor must prior to the commencement date provide the enginners and the CHSA the CV's and competancy of the procured personel for aproval	2	1	3	6		
OHS Act /CR/CHSS	Principal Contractor not submitting the required documentation timeously. Incompetent person preparing the OHS File.	The contractor must procure the competant staff whsich can produce the required management systems and instruments to provide the client CHSA for aproval prior to commencing work.	3	2	2	12	The contractor must prior to the commencement date provide the enginners and the CHSA the CV's and competancy of the procured personel for aproval	2	1	3	6		
OHS Act /CR/CHSS	The proposed school upgrade is within Arcadia is surrounded with gang violence, crime high drug use. The safety of workers and the security of the site must be evaluated to ensure suffient security is provided.	The contractor must work together with community leaders to understand the social circumstances which the community of Arcadia is expsriencing. Gang villonance and drug use is high in this area	3	2	2	12	The contractor will after meeting with the police , community leaders and realive forums compile a risk evaluation and security plan to ensure workers and the construction site is safe to carry out work activities.	2	1	3	6		
"1500/1502 (a,b) 1503/1504 / 1506 / 1512	Site establishment, erecting of temporary structures for site offices engineer and contractor labour. General plumbing and sanitary systems (sewage) will be required at site camps and accommodation. Building of various concrete structures, electrical supply.	Site establishment and erecting site buildings, deliver temporary accommodation and storage facilities. May use septic tank, chemical toilets on site.	3	2	3	18	The appointed contractor to provide requirements relative to sanitary systems to be used. Method statements, risk assessments, temporary works drawings and other supporting documentation for site establishment to be provided. The site establishment must cater to keep persons from the hospital out of the work area.	2	1	3	6		
"1500/1502 (a,b) 1503/1504 / 1506 / 1512	Site establishment, erecting of temporary structures for site offices engineer and contractor labour. Erecting division barrier between construction and THE SCHOOL , Fencing access control, movement restriction	Provide a physical barrier between the school and the construction work activities, Minimise the effect of movement to interfere with hospital. Access control points, security at entrance, storage area, delivery gate, parking	3	2	3	18	Taking into consideration that construction will take place in an operating school , Minimise integration with school operations, Include the risk of movement do's and don'ts within the induction of workers. Risk Assessment to include	2	1	3	6		
"1500/1502 (a,b) 1503/1504 / 1506 / 1512	Hording , fencing separating the active school from the construction site. The construction of the school is in the very busy subberb of Arcadia with high traffic volumes on the roads around the school.	Provide a physical barrier between the school and the construction work activities, Minimise the effect of movement to interfere with hospital. Access control points, security at entrance, storage area, delivery gate, parking					Ensure the school is securely separated from the construction site. Ensure adequate security and fencing around the construction site. Ensure sufficient signage and lighting is available for 24 hour security'						
1512 /CR 14	Delivery of Material for temporary deviations to be obtained from alongside or within vicinity of the temporary deviation will be used.	Use of large plant to deliver and off load material / design route for delivery and create are foe storage and holding of material	3	2	3	18	Engineers approval of site layout and temporary designs. Risk assessments, competent supervision and control system to be implemented.	2	1	3	6		
1512 / 3207 CR23 DMR	Material movement on site, quantities stored on site 'limited space . Movement of plant, Demolish activities	demolish material will be cleared and material waste kept to an absolute minimum around the site. Demolish method statement to be submitted and approved	3	2	3	18	Demolition plan required,, Contractor to provide a PSHSP in accordance of the PSHHS, approval of H&S plan 7 days prior to commencing work. Dust management and rubble remove in shortest time.	2	1	3	6		

REF	DESIGN ASPECTS PRESENT	DESCRIBE THE METHODS AND ACTIVITIES USUALLY PROVIDED BY THE CONTRACTOR	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND RISK CATEGORY	EXTRA CONTROL MEASURES NECESSARY TO REDUCE RISK/ REDESIGN	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND
1699 / 1703 / 1707 /1800 CR1, DMR FR RHCS	Specialised work activities by Appointed contractors	Specialised high risk activities	2	2	3	12	PC to provide Contractors with PSHSS, approval of H&S plan 7 days prior to commencing work on site. Same standards apply to Contractors Use of MSDS's for H&S prior approval and own letter of good standing.	2	1	3	6
1700 / 1703 / 1707 /1800 CR1, DMR FR RHCS	SMME, Contractors will be appointed for work ranging from specialist activities to normal low-level building. Some demolition of structures, concrete work and walls	Inexperienced SMME used for work.	3	2	3	18	PC to provide SMME with PSHSS, approval of H&S plan 7 days prior to commencing work on site. Same standards apply to SMME. All contractual documents and approval of health and safety plan for H&S prior approval and own letter of good standing.	2	1	3	6
6100/ 6100B CR	Foundations for Structures of school, barricading of excavations	Mechanical excavations, with some hand digging	3	3	3	27	Contractor must submit a method statement engineer/architect, designed a task specific risk assessment and ensure competent supervision of activities	2	1	3	6
CR11; CR12; CR9; CR6 SANS920	Delivery of building material	PPE, Induction, Stacking and Storage planned. Follow Engineers Drawings. Manual handling of reinforcing, or mobile machinery used.	2	2	3	12	Contractor needs to provide bulk suppliers with a PSHSS and demand the required document, competencies and certificates. HIRA of Ergonomic risks associated with works. The site lay-out must make provision for entrance to site/ storage area's /Just intime delivery system.	2	1	3	6
CR23; CR9;	Excavate for foundations.	Establish Existing Services. HIRA, H&S Plan. Mobile Plant inspection registers, Competency Certificates, Medical Certificates of Fitness.	3	2	3	18	Technical method statement Permit to Work - Excavations. Barricading, As-built drawings to be received and service marked and communicated on site. Excavations must be open for the shortest possible time.	2	1	3	6
CR29; CR9, CR25, CR28; CR29, SANS10021	Waterproof fillings, etc. B Prepare and apply approved polyurethane joint filler in 12mm wide x 20mm deep vertical expansion joint, including necessary raking out of joint filler	HIRA; h&s plan; competency certificate.	1	3	2	6	Permit to Work System - Hot Work. Engineer to approve the chemicals, MSDS details to be inspected, Training of first aid requirements, included in the contractors risk assessments.	2	1	3	6
CR9; CR23, CR28; ER	Carting away of excavated material	Mobile Plant and Machinery Inspection Register; H&S Plan, HIRA, PPE, Medicals, Licenses and Competency Certificates, Maintenance Records.	2	2	2	8	Traffic Management Plan. Rubble to be removed in shortest possible time, Dust management as this is an operational hospital. Route plan and loading are to be incorporated in the drawings	2	1	3	6
CR9; CR12; CR23, CR27, CR20; SANS 2001-CM2; ER; SANS10109	Concrete Work	Contractor H&S Plan, HIRA, PPE	2	3	3	18	Permit to Work System - Contractor. Traffic Management Plan Safe area to discharge use of concrete pump. Planning required to ensure the least traffic disruption.	2	1	3	6
CR9, CR10; CR12, CR14, CR27, CR28, SANS 2001-CM2; SANS ENV413	Masonry	HS Plan, HIRA, Medicals of fitness. Provide sufficient suitable access.	2	2	3	12	Air Monitoring - cement mixing. Ensure safe access to area (not on drums for e.g.) Ensure work platforms are secure and safe and meet legal requirements. Competent supervision at all times.	2	1	3	6
GSR6; 13A; CR10; CR16; CR28; CR9; CR27; CR28	Working at heights	Ladders, Scaffolding, Trestles, Drums, Fall Protection Plan.	3	2	2	12	Work Permit system (working at heights), Fall Protection Plan, Appointment of planner, Height Fitness Medicals	2	1	3	6
CR12; CR14; CR27, CR28	Formwork	Designer drawings, sign-off before pouring removing. PPE; HIRA, HS Plan, Medical Fitness.	3	3	3	27	Competent person to sign-off.	2	1	3	6

REF	DESIGN ASPECTS PRESENT	DESCRIBE THE METHODS AND ACTIVITIES USUALLY PROVIDED BY THE CONTRACTOR	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND RISK CATEGORY	EXTRA CONTROL MEASURES NECESSARY TO REDUCE RISK/ REDESIGN	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND
CR6; CR9;CR11; CR12;CR14 CR16; CR27; CR28	Pouring concrete to deck	HIRA; HS Plan; Medicals, Safety Working at heights, Medical Fitness Certifications.	3	3	3	27	Permit to work at heights. Inspection of deck, temporary support structure to be inspected and signed of by a competent structural engineer. No heaping of concrete	2	1	3	6
CR9; CR25; CR27; CR28; CR29; SANS 952 ; GSR9; SANS10021	Waterproofing	Blow-Torch, membrane applied. Sub-contractors usually used.	2	2	2	8	Permit to work system.	2	1	3	6
CR9; CR6; CR10; CR16; CR27; CR28; CR29	Roof work, galvanising steel sheeting	Fall Protection Plan; Medical Fitness Certification for working at heights.	3	2	2	12	Permit to work system. Suitable Method Statement and necessary equipment on site to ensure safe execution of works.	2	1	3	6

REF	DESIGN ASPECTS PRESENT	DESCRIBE THE METHODS AND ACTIVITIES USUALLY PROVIDED BY THE CONTRACTOR	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND RISK CATEGORY	EXTRA CONTROL MEASURES NECESSARY TO REDUCE RISK/ REDESIGN	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND
CR9; CR6; CR10; CR16; CR27; CR28; CR30; GSR6; GSR13A	0.8mm Rectangular pre-coated seamless aluminium gutters including matching rivet-fixed mitres and end internally sealed using Silicon Sealant hung by screw fixed internal aluminium hangers at 600mm centres installed strictly according to manufacturer's specifications	Fall Protection Plan; Medical Fitness Certification for working at heights. Ladder inspection register; Scaffolding management.	3	2	2	12	Permit to work system. Suitable Method Statement and necessary equipment on site to ensure safe execution of works.	2	1	3	6
CR9; CR6; CR10; CR16; CR27; CR28; CR30; GSR6; GSR13A; SANS01445	Roof insulation	Fall Protection Plan; Medical Fitness Certification for working at heights. Ladder inspection register; Scaffolding management.	3	2	2	12	Permit to work system (Working at Heights). Planning and Designing of Scaffolding to ensure suitable and sufficient access scaffolding is available as and when required to conduct work safely.	2	1	3	6
CR9; CR10; CR27; CR28; CR29	Carpentry and Joinery	Hand Tool inspections. HIRA. PPE	2	2	1	4	Safety Talks. Inspection of PPE.	2	1	3	6
CR9; CR25; CR27; CR28; CR29; HCSR; ER; SANS581	Floor Covering	Medical Fitness Certification. HIRA.	2	2	2	8	Permit to Work System. Ventilation, Fire Reaction Measures.	2	1	3	6
CR9; CR25; CR27; CR28; CR30	Carpeting of flooring	Contracted out - get H&S Plan and supporting documentation.	2	2	2	8	Medical Fitness Certificate. Management of Contractor/s. Permit to Work System.	2	1	3	6
CR9; CR27; CR28	Finishes (Blinds)	Contracted out - get H&S Plan and supporting documentation.	2	2	2	8	Medical Fitness Certificate. Management of Contractor/s.	2	1	3	6
CR9;10;16;27;28; SANS 1651	Installation of Aluminium doors and windows	Contracted out - get H&S Plan and supporting documentation. Fall protection Plan.	2	2	2	8	Medical Fitness Certificate. Management of Contractor/s. Permit to Work System.	2	1	3	6
HCSR; GSR13; GSR6; GSR8; 13A; CR9;10;27;28; ER	Plastering (Cement Mixing included)	HIRA; H&S Plan; work from trestles or scaffolding. Medical Fitness Certification.	2	2	2	8	Inspection registers for Scaffolding. Fall Protection Plan. Air Monitoring (Silica Dust)	2	1	3	6
HCSR; GSR13; GSR5; 6; GSR8; 13A; CR9;10;27;28	Tiling (Porcelain and Clay)	Contracted out - get H&S plan and supporting documentation. PPE. Hand tools inspections.	2	2	2	8	Permit to Work System - working at heights, contractors management.	2	1	3	6
HCSR; GSR13; GSR6; GSR8; 13A; CR9;10;27;29	Plumbing and Drainage	Contracted out - get H&S plan and supporting documentation. PPE. Hand tools inspections. FPP	3	2	3	18	Permit to Work System - working at heights, contractors management.	2	1	3	6
GSR13; GSR5; 6; GSR8; 13A; CR9;10;27;28; PER	Installation of fire suppression system and / or Equipment.	Contracted out - get H&S plan and supporting documentation. PPE. Hand tools inspections.	3	2	3	18	Permit to Work System - working at heights, contractors management.	2	1	3	6
CR9;10;27;29; GSR9	Core Drilling	Contracted out - get H&S plan and supporting documentation. PPE. Hand tools & Equipment inspections.	1	2	2	4	Permit to Work System - contractors management.	2	1	3	6
GSR13; GSR5; 6; GSR8; 13A; CR9;10;27;28; SANS 1651	Glazing	Contracted out - get H&S plan and supporting documentation. PPE. Hand tools inspections; FPP	2	2	3	12	Permit to Work System - working at heights, contractors management.	2	1	3	6
HCSR; GSR13; GSR5; 6; GSR8; 13A; CR9;10;27;28	Painting	H&S Plan; HIRA; Fitness to Work Medicals; FPP.	3	2	2	12	Permit to work system - working at heights; fire reaction measures.	2	1	3	6

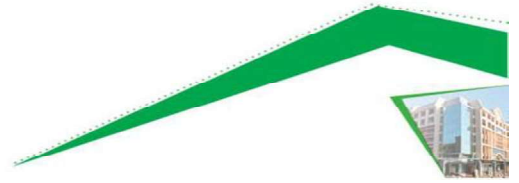
REF	DESIGN ASPECTS PRESENT	DESCRIBE THE METHODS AND ACTIVITIES USUALLY PROVIDED BY THE CONTRACTOR	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND RISK CATEGORY	EXTRA CONTROL MEASURES NECESSARY TO REDUCE RISK/ REDESIGN	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND
DMR; CR9;10;13;23;27;28;	Earthworks Bedding and Backfilling	Mobile Plant and Machinery Inspection Register; H&S Plan, HIRA, PPE, Medicals, Licenses and Competency Certificates, Maintenance Records.	3	3	3	27	Traffic Management Plan.	3	1	3	9
RHBA; CR9;13;19;22;23;27;28	Connecting to existing sewer line	HS Plan; HIRA; PPE; Locating Existing Service.	2	3	1	6	Permit to Work System - Hazardous Biological Agents - hazardous location.	1	1	3	3
DMR; CR9;10;13;23;27;28;	Backfilling	Mobile Plant and Machinery Inspection Register; H&S Plan, HIRA, PPE, Medicals, Licenses and Competency Certificates, Maintenance Records.	3	3	1	9	Traffic Management Plan.	2	1	3	6

REF	DESIGN ASPECTS PRESENT	DESCRIBE THE METHODS AND ACTIVITIES USUALLY PROVIDED BY THE CONTRACTOR	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND RISK CATEGORY	EXTRA CONTROL MEASURES NECESSARY TO REDUCE RISK/ REDESIGN	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND
DMR; CR9;10;13;23;27;28	Clean site including digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc m2 6 000 B Excavate over site 200mm deep to remove topsoil and deposit on site where directed	Mobile Plant and Machinery Inspection Register; H&S Plan, HIRA, PPE, Medicals, Licenses and Competency Certificates, Maintenance Records.	3	1	2	6	Material Stock pile location to be agreed. Dust suppression methods to be included in H&S Plan.	2	1	3	6
HCSR; CR9;10;23;27;25;26;28;29; SANS 1373	Fertilize top 150mm depth of soil with a 8,3% "P-Super phosphate" mixture to a rate of 0,075kg/m2 and a 3:2:1 (30) fertilizer to a rate of 0,035kg/m2 before commencing with planting (Labour intensive) m2 1 500 B "Kikuyu" grass in sods (instant lawn) closely packed and top dressed as necessary to even surfaces (Labour intensive)	HS Plan; HIRA; PPE; MSDS considered.	2	1	2	4	Permit to Work System - Contractors.	1	1	3	3
DMR; CR9;10;13;23;27;28;	Land scaping material supplied and carted on by the Contractor, spread levelled, well watered and compacted in layers not exceeding 150mm to a density of 93% modified AASHTO.	Mobile Plant and Machinery Inspection Register; H&S Plan, HIRA, PPE, Medicals, Licenses and Competency Certificates, Maintenance Records.	3	1	2	6	Traffic Management Plan., Access control for vehicles moving in and out, Monitoring of material spills, Induction of drivers as to do's and don'ts.	3	1	3	9
CR9;10;23;27; 28	Concrete paving blocks A 60mm Interlocking Block Type S-A with compressive strength of 25Mpa in Herringbone Pattern 45 degree to the kerb on 25mm river sand bedding (bedding elsewhere measured) including all cutting of blocks and sand infill (Labour intensive)	Mobile Plant and Machinery Inspection Register; H&S Plan, HIRA, PPE, Medicals, Licenses and Competency Certificates, Maintenance Records.	1	1	2	2	Consider ergonomic risk associated with works. Noise from cutting, dust and silica risk. Consider normal hospital operations, Competent supervision	1	1	3	3
CR9;13;23;27;28	Brick Piers and Palisade Fencing	Hand tools, minor cement works, shallow excavations.	2	1	2	4	Permit to Work System - contractors management.	1	1	3	3
EIR; CR9;10;24;28;29	Electrical Installations	Contracted out to specialist . HS Plan, HIRA	3	1	2	6	provide with PSHSS, approve plan. Letter of Good standing, technical method statements Permit to Work. Method Statement. Proof of Competency required. Lock out procedures where appropriate. Medical Fitness required.	2	1	3	6
CR9;10;24;28	Telephone and Data Installations	Contracted out to specialist HS Plan, HIRA	2	1	2	4	provide with PSHSS, approve plan. Letter of Good standing, technical method statements Permit to Work. Method Statement. Proof of Competency required. Lock out procedures where appropriate. Medical Fitness required.	1	1	3	3

REF	DESIGN ASPECTS PRESENT	DESCRIBE THE METHODS AND ACTIVITIES USUALLY PROVIDED BY THE CONTRACTOR	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND RISK CATEGORY	EXTRA CONTROL MEASURES NECESSARY TO REDUCE RISK/ REDESIGN	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND
12.02 OHSA S8 CR13	Establishing Existing Services (Electricity, Telkom)	Hand or mechanical exposure of services. Demarcation of services with candy tape. PC will expose and protect services. May be illegal connections.	3	3	2	18	Competent supervision and adequate pre-task training required. All excavations open longer than 24 hours to be demarcated with netting or similar, at least 5m away from edge. PC to create physical barrier to prevent access to Eskom indicated distance to power line.	1	3	3	9
FR	Potable water is available	Safe and healthy access to drinking water, and water for washing hands.	2	3	2	12	Grahamstown is a water scares town, Water to be recycled by reuse, Storage of water, obtain water extracting permit from Municipality	1	3	3	9
CR7(g) CR23 DMR	All plant will be heavy vehicles, including: tipper trucks, ADT's, loaders.	Tipper trucks, dumpers, loaders, TLB's, and rollers. Use of co-contractors for hire plant.	3	2	3	18	CV's, including training and medical certificates required for all operators. Daily records on H&S file may not be more than a week behind. An updated list of daily plant to be kept by the H&S Officer.	3	2	3	18
CR12; CR27; CR28 CR6; CR23; CR11 CR16; CR8; CR9; CR10	Formwork and support work will be required.	Competent supervision and checking of all formwork and support work by competent person. Appointment of competent person, method statements and risk assessments approved by RE; daily inspections on record.	3	3	3	27	All drawings to be signed, checked prior to pour and stripping by competent person. Drawings require submission to RE. Detailing areas and attention to housekeeping required. Audiometry testing for workers potentially exposed to noise.	3	3	3	27
CR25 HCSR	Exposure to various specified products containing hazardous chemical substances. Epoxies/Cements - see chemicals at end.	Brining HCS onto site without linkage into risk assessment system.	3	2	3	18	Choice of products by PC to be approved by RE, Registers of products, training of workers prior to issue of products. SDS's available and workers trained. Method statements and risk assessments to include risks relating to products identified.	2	1	3	6
SANS541	Precast kerbs and cast in situ channels. It is likely that there is a weight implication relating to kerbs and other precast structures used through the project. Likely to be a labour intensive activity.	Mechanical lifting to be done by appropriate lifting devices, competent supervision and competent, fit operators.	2	1	3	6	Rotation of workers to be addressed where necessary for workers working for longer than 3 hours in sustained positions below knee level, or above shoulder height. Contractors used to complete the works will be provided with an H&S Spec, approval of H&S plan 7 days prior to commencing work on site.	1	1	3	3

REF	DESIGN ASPECTS PRESENT	DESCRIBE THE METHODS AND ACTIVITIES USUALLY PROVIDED BY THE CONTRACTOR	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND RISK CATEGORY	EXTRA CONTROL MEASURES NECESSARY TO REDUCE RISK/ REDESIGN	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND
HAZARDOUS CHEMICAL SUBSTANCES SPECIFIED OR REQUIRED											
HCSR CR21	Consol Plastics Briq grip DPC	HIRA; MSDS; safety talks; first aiders	3	3	1	9	Dust control, PPE (eye and respiratory) used of distributor when stabilising road. Rotation of workers	2	1	3	6
HCSR CR22	Derbigum SP4	HIRA; MSDS; safety talks; first aiders	3	3	1	9	Dust control, PPE (eye and respiratory) used of distributor when stabilising road. Rotation of workers	2	1	3	6
HCSR CR23	polyurethane sealant	HIRA; MSDS; safety talks; first aiders	3	3	1	9	Dust control, PPE (eye and respiratory) used of distributor when stabilising road. Rotation of workers	2	1	3	6
HCSR CR24	Expandite Sealastic	HIRA; MSDS; safety talks; first aiders	3	3	1	9	Dust control, PPE (eye and respiratory) used of distributor when stabilising road. Rotation of workers	2	1	3	6
HCSR CR25	Cement	Used across the project for a range of tasks, 50kg bags delivered on pallets, ergonomic risk from handling, dust exposure	3	3	1	9	Dust control, PPE (eye and respiratory) used of distributor when stabilising road. Rotation of workers	2	1	3	6
HCSR CR25	Shutter oil	Usually hand application prior to placing formwork in position Volatiles present	1	1	1	1	PPE - gloves for skin protection, adequate supervision	1	1	3	3
HCSR CR25	Prime MC 30	Required for surfacing preparation. Dangerous fumes. Burns, gas bottle explosion, fire	3	3	1	9	Limit workers exposure and provide adequate protective clothing. First aid measures available, medical surveillance incl liver function testing	2	1	3	6
HCSR CR25	Petrol/diesel/lubricants	Storage tanks on site. Fire, spillage, fumes	2	3	1	6	Local supplier preferred for petrol. Bund walls around diesel tanks, emergency plan, Hazardous chemical store for petrol and lubricants. Supervision	1	1	3	3
HCSR CR25	Epoxies (including resins)	Not specified, but will be used. Principal Contractor to ensure use of MSDSs and appropriate protection measures	2	3	1	6	Access to availability of alternative products to limit the exposure to workers	2	1	3	6
HCSR CR25	Coatings	Not specified, but will be used. Principal Contractor to ensure use of MSDSs and appropriate protection measures	2	2	1	4	Appropriate PPE - skin, eye and face protection	1	1	3	3
HCSR CR25	Superphosphate fertilizers	Eye, respiratory and skin irritant	2	1	1	2	Eye, Face and Skin Protection	1	1	3	3
HCSR CR25	Limestone ammonium nitrate fertilizer	Prolonged skin or eye contact could cause irritation. Explosive and will release toxic fumes if heated.	2	1	1	2	Eye, Face and Skin Protection	1	1	3	3
HCSR CR25	Grouts	Will be determined by the Principal Contractor; cementations or other, may contain silica (crystalline - quartz), hexavalent chromium. Respiratory, skin and eye irritant	1	2	1	2	Nitrile gloves, FF2 dust masks, eye protection required. Preferably use a single component epoxy system	1	1	3	3
OTHER ASPECTS CONSIDERED											
General safety requirements	Pedestrian traffic during and after works.	Provision to be made for safe use of road way for pedestrian traffic during and after works.	3	2	2	12	Provide temporary safe means during construction to ensure segregation of vehicles and pedestrians. Place camp on same side of works as and when possible.	2	3	1	6

REF	DESIGN ASPECTS PRESENT	DESCRIBE THE METHODS AND ACTIVITIES USUALLY PROVIDED BY THE CONTRACTOR	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND RISK CATEGORY	EXTRA CONTROL MEASURES NECESSARY TO REDUCE RISK/ REDESIGN	LIKELY CONSEQUENCES OF AN ACCIDENT	FREQUENCY OF EXPOSURE	PROBABILITY OF HARM	RISK RATING AND
	Working within close distance of a school where teaching is taking place	Constand communication, the effect of notice on the patients, Dust and equipment movement,	3	2	2	12	Constand communication with the school prinsiapal . Seeking alternative methods to reduce Noise. Limit interaction of workers in the hospital facility.	2	3	1	6
	Decommissioning of site.	Site clearing, removal of site camp, containers, fencing, temporary road signs.	3	1	1	3	Risk Assessments and Method Statements	2	2	1	4
	Local Community: Unrest.	Provide % of work to local labour.	2	1	1	2	Community Liaison Officer being appointed.	2	1	1	2
	Maintenance of facility at operational phase	Access to and safe means to maintain roof and exterior fittings and walls - no means via anchorage points (e.g. cleaning windows, clearing gutters).	3	1	1	3	Consider operational phase maintenance plan and access routes, anchorage points on roof/building.	1	1	1	1
The specification was written by Shaun Norris and Dimpho Mochochoko											
Shaun Norris Norris Health and Safety service 23 Van Plettenberg Street Kabega Park Port Elizabeth Phone: 0824693974 Email: shaun@norrihs.co.za											
PER - Pressure Equipment Regulations HCSR - Hazardous Chemical Substances Regulations. NIHLR - Noise Induced Hearing Loss Regulations			LEPCR - Lift, Escalator, Passenger Conveyor Regulations GMR - General Machinery regulations EIR - Electrical Installations Regulations			RHBA - Regulations for Hazardous Biological Agents					



ANNEXURE 2A

BILLS OF QUANTITIES – MAIN/MASTER BILL OF QUANTITY

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

PREAMBLES FOR TRADES

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

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

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

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

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

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

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STRUCTURE OF THIS PRELIMINARIES BILL

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

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

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

PRICING OF PRELIMINARIES

Contractors are required to price all individual items in the preliminary and general section of the bill of quantities and should not lump the items into a single sum or amount. This fully priced schedule must be included as part of the priced bill of quantities returnable with tender submission

In the event that the contractor, due to causes of his own making, fails to achieve the targets set out in his construction programme and his performance is not in accordance with the contract, payment of the time related Preliminaries will be paid in proportion to the value of the monthly progress payment and not in accordance with the projected cash flow for this item. The principal agent shall review the status quo and revert to paying the contractor in accordance with the contract once the contractor has demonstrated improvement of their performance and the Principal Agent is satisfied that the contractor is performing diligently.

Similarly the full amount of the fixed portion of the Preliminaries will be paid only once the successful contractor has fully complied with deliverables under this section

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

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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION A: PRINCIPAL BUILDING AGREEMENT

- 1 Interpretation (A1-A7)
- 2 Clause 1.0 - Definitions and interpretation
- 3 **Pricing of bills of quantities**
- 4 The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities
- 5 Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained
- 6 Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary
- 7 **Abbreviated descriptions**
- 8 The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice

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1	Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA			
2	3.1 Duties [6.2]			
3	The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the works			
4	3.2 Contract instructions [6.2; 17.1]			
5	3.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement			
6	3.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
7	3.2.3 The site [13.0]			
8	3.2.4 Compliance with the law, regulations and bylaws [2.1]			
9	3.2.5 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works			
10	3.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]			
11	3.2.7 Removal or re-execution of work			
12	3.2.8 Removal or substitution of any materials and goods			
13	3.2.9 Protection of the works			
14	3.2.10 Making good physical loss and repairing damage to the works [23.2.2]			
15	3.2.11 Rectification of defects [21.2]			
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1	3.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
2	3.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums			
3	4. Mechanical engineer			
4	Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA			
5	4.1 Duties [6.2]			
6	The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions			
7	4.2 Contract instructions [6.2; 17.1]			
8	4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement			
9	4.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
10	4.2.3 Compliance with the law, regulations and bylaws [2.1]			
11	4.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works			
12	4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]			
13	4.2.6 Removal or re-execution of work			
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1	The fire consultant is responsible for all aspects of rational fire design and quality inspection of the works			
2	7.2 Contract instructions [6.2; 17.1]			
3	7.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement			
4	7.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
5	7.2.3 Compliance with the law, regulations and bylaws [2.1]			
6	7.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works			
7	7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]			
8	7.2.6 Removal or re-execution of work			
9	7.2.7 Removal or substitution of any materials and goods			
10	7.2.8 Protection of the works			
11	7.2.9 Making good physical loss and repairing damage to the works [23.2.2]			
12	7.2.10 Rectification of defects [21.2]			
13	7.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
14	7.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums			
15	F:..... V:..... T:.....	Item		
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1	Clause 3.1 - Previous work - dimensional accuracy			
2	F:..... V:..... T:.....	Item		
3	Clause 3.2 - Previous work - defects			
4	F:..... V:..... T:.....	Item		
5	Clause 3.3 - Inspection of adjoining properties			
6	F:..... V:..... T:.....	Item		
7	The site (B4)			
8	Clause 4.1 - Handover of site in stages			
9	F:..... V:..... T:.....	Item		
10	Clause 4.2 - Enclosure of the works			
11	Enclosure of work to be as prescribed by the Architect. in the absence of prescribed specification the contractor to allow as per the regulations			
12	F:..... V:..... T:.....	Item		
13	Clause 4.3 - Geotechnical and other investigations			
14	F:..... V:..... T:.....	Item		
15	Clause 4.4 - Encroachments The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachment			
16	F:..... V:..... T:.....	Item		
17	Clause 4.5 - Existing premises occupied			
18	F:..... V:..... T:.....	Item		
19	Clause 4.6 - Services - known			
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1	F:..... V:..... T:.....	Item		
2	Management of contract (B5)			
3	Clause 5.1 - Management of the works			
4	F:..... V:..... T:.....	Item		
5	Clause 5.2 - Progress meetings			
6	F:..... V:..... T:.....	Item		
7	Clause 5.3 - Technical meetings			
8	F:..... V:..... T:.....	Item		
9	Samples, shop drawings and manufacturer's instructions (B6)			
10	Clause 6.1 - Samples of materials			
11	F:..... V:..... T:.....	Item		
12	Clause 6.2 - Workmanship samples			
13	F:..... V:..... T:.....	Item		
14	Clause 6.3 - Shop drawings			
15	F:..... V:..... T:.....	Item		
16	Clause 6.4 - Compliance with manufacturer's instructions			
17	F:..... V:..... T:.....	Item		
18	Deposits and fees (B7)			
19	Clause 7.1 - Deposits and fees			
20	F:..... V:..... T:.....	Item		
21	Temporary services (B8)			
22	Clause 8.1 - Water			
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1	Clause 11.3 - Security of the works The contractor shall be briefed on the restrictions of movement, servitudes, access control, buildings in use, security requirements and security clearances, working hours due to the right being occupied and under the employers control at all times. The contractor shall not extend his operations into any restricted or undefined areas. Work shall be carried out during normal working hours. Any extended times or approval or overtime work shall be considered and approved by the PA. The contractor shall comply with the employers rules for the control of delivery of materials and goods into the site and for the removal of such items from the site. The Contractor will be responsible for ensuring the security and protection of all material, hand tools, power tools, plant, equipment, machinery, etc. stored on the site. The Contractor will be required to make arrangements with the Employer, through the Principal Agent, for the use of and reimbursement for the security measures currently in force and operational on the site				
2	F:..... V:..... T:.....	Item			
3	Clause 11.4 - Notice before covering work				
4	F:..... V:..... T:.....	Item			
5	Clause 11.5 - Disturbance Disturbance All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever				
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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

1	The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense			
2	F:..... V:..... T:.....	Item		
3	Propping of floors below			
4	The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor			
5	F:..... V:..... T:.....	Item		
6	Testing of flat roof waterproofing for watertightness			
7	Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing			
8	F:..... V:..... T:.....	Item		
9	Broad based black economic empowerment (BBBEE)	N/A		
10	Tenders submitted will be evaluated taking into account their empowerment rating			
11	The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works			
Carried to Collection SECTION 1 : PRELIMINARIES & GENERAL Bill No.1 : Preliminaries			R	

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

1	The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating			
2	F:..... V:..... T:.....	Item		
3	Advertising rights			
4	The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement			
5	F:..... V:..... T:.....	Item		
6	Confidentiality			
7	The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works			
8	No information regarding this project shall be published or disclosed without the prior written consent of the employer			
9	F:..... V:..... T:.....	Item		
10	Media releases			
11	All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer			
12	The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement connected with this project to be printed, screened or aired by the media			
Carried to Collection			R	
SECTION 1 : PRELIMINARIES & GENERAL				
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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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1	F:..... V:..... T:.....	Item		
2	C1 CONTRACT DRAWINGS The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent. F:..... V:..... T:.....	Item		
3	C2 GENERAL PREAMBLES The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used. F:..... V:..... T:.....	Item		
4	C3 TRADE NAMES Wherever a trade name for any product has been described in the bills of quantities / lump sum documents, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders. If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for. F:..... V:..... T:.....	Item		
Carried to Collection			R	
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Carried to Collection

SECTION 1 : PRELIMINARIES & GENERAL

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SECTION 1 : PRELIMINARIES & GENERAL
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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

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

The contractor shall:

1. Comply with the health and safety specification for the works
2. Prepare and agree with the health and safety consultant the health and safety plan for the works
3. Cooperate with the health and safety consultant in all respects
4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification
5. Conform to the conditions contained in the employer's health and safety specification

The following to be priced complete under this clause:

1. Preparation of the Contractor's site specific Health and Safety Plan
2. Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations
3. Principal Contractor's time related obligations in respect of the OHS Act & Construction Regulations
4. Personal Protective Equipment & Protective Equipment (Reflective vests, hard hats, safety shoes, earplugs, gloves, goggles, dust masks, overalls)
5. Full time Construction Health and Safety Officer (SACPCMP Registered)

Carried to Collection

SECTION 1 : PRELIMINARIES & GENERAL
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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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	6. OHS related trainings (eg. First aid, scaffolding, working at height HIRA etc) 7. Initial (baseline) medical examinations 8. Exit examinations F:..... V:..... T:.....	Item		
1	C11 REPORTING BY CONTRACTOR The Contractor is required to complete the CONTRACTOR MONTHLY REPORT which is to be submitted together with the Contractor's payment claim. Payment of the Contractor is conditional on this information being accurate and timeously provided. Payment shall be subject to the Employer giving the Contractor a tax invoice for the amount due. The Contractor is to take note of the following requirements - At the bottom of the CONTRACTOR MONTHLY REPORT, the Site Agent, Clerk of Works, CLO or Contractor must sign the document as proof that the people indicated have worked the number of days F:..... V:..... T:.....	Item		
2	C12 LOCAL LABOUR AND LOCAL BUILDING MATERIALS It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Should adequate and appropriate labour not be available within the locality, other labour may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall, in general, maximise the involvement of the local community.	Item		
	Carried to Collection SECTION 1 : PRELIMINARIES & GENERAL Bill No.1 : Preliminaries		R	

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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1	C13 LOCAL BUILDING MATERIALS Preference shall be given to the supply of materials produced or manufactured in the Northwest Province provided that: (a) Such materials comply in all respects with the specific requirements of PW371 specification. (b) The availability of such materials shall not adversely affect the desired progress of the specific works. (c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof. F:..... V:..... T:.....	Item		
2	C14 ADMINISTRATION The Contractor must allow for all costs (including any profit and/or attendance) associated with the administration, appointment, training and/or payment of the CLO, Candidate Professionals, Students, EPWP Beneficiaries, APTCOD Learners, Clerk of Works and Steering Committee Members as applicable and included in this tender document. This item must be priced within rates or preliminaries, there is no separate line item for this (refer to PROVISIONAL SUMS & SOCIAL SECTIONS OF THIS BOQ) No additional claims in this regard shall be entertained. F:..... V:..... T:.....	Item		
3	C15 SOCIO-ECONOMIC DELIVERABLES The Tenderer must allow for all costs (including any profit or attendance) associated with the administration, appointment, training and/or payment of the CLO, Built Environment Interns, Training of Local Labour, Students, Steering Committee Members as applicable and included in this tender document (refer PROVISIONAL SUMS section). No additional claims in this regard shall be entertained. F:..... V:..... T:.....	Item		
4	C16 EMPLOYMENT OF SMME CONTRACTORS Carried to Collection SECTION 1 : PRELIMINARIES & GENERAL Bill No.1 : Preliminaries		R	

AS "SUB-CONTRACTORS" TO THE PRINCIPAL CONTRACTOR

The Tenderer must allow for all costs applicable that they may feel will be associated with the successful integration, development of and completion of SMME Sub-contractors' work to the approval of the Principal Agent on this project.

*Approximately 30% of the project value **must** be allocated to SMME Sub-contractors. Successful contractor will be required to supply verified monthly statements/schedules (verified by their auditors) indicating the % achieved for that month. A cumulative schedule also needs to be maintained for each month that has passed.*

Tenderer must include in their tender price all costs related to PPE, Health & Safety requirements, and medical examinations for every SMME subcontractor employed on the project.

Failure by a main contractor/service provider to comply with the provisions of this policy in respect of meaningful participation of SMME's, will result in the application of a penalty.

The penalty applicable will be equal to the value of the shortfall measured using NDPW penalties guideline

Any additional costs that the Tenderers may deem applicable due to the use and implementation of 30% of SMME Subcontractors programme, including the following but not limited to should be allowed for in this item, no claim for any additional costs attributable to the incorporation and development of SMME Sub-contractors on this project will be entertained after the tenders are submitted.

Tenderer's Profit & Attendance on 30% of SMME's Subcontractors programme should be allowed for in this item, no claim for any additional costs attributable to the incorporation and development of SMME Sub-contractors on this project will be entertained after the tenders are submitted.

1. Contractor's profit & Attendance
2. SMME's preliminaries & General including OHS

Carried to Collection

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

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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

SUMMARY OF CATEGORIES

- 1 Category : Fixed R.....
- 2 Category : Value R.....
- 3 Category : Time R.....

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Item

Item

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

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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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SECTION 1 : PRELIMINARIES & GENERAL

Bill No.1 : Preliminaries

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

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
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SECTION 1 : PRELIMINARIES & GENERAL

Bill No.1 : Preliminaries

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SECTION 1 : PRELIMINARIES & GENERAL

Bill No.1 : Preliminaries

Item No	Quantity	Rate	Amount
<u>SECTION 2 - BUILDING WORKS</u>			
<u>BILL No.1 - DEMOLITIONS AND ALTERATIONS (CPAP Work Group No. 102 Unless Otherwise Stated)</u>			
<u>PREAMBLES</u>			
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>View Site</u>			
Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated			
Carried to Collection		R	
SECTION 2 : BUILDING WORKS Bill No.1 : Demolitions and Alterations			

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

Carried to Collection

SECTION 2 : BUILDING WORKS
Bill No.1 : Demolitions and Alterations

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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

The Contractor will be held solely responsible for checking all floor levels and dimensions in the existing building in order that the new extensions may be correctly lined up. Should any discrepancies be found in the Architect's drawings he should be asked for a decision before continuing with the work

The Contractor will be held solely responsible for any damage to persons and property, for the safety of the new and existing structure throughout the whole of the contract and must make good at his own expense any damage that may occur

Old materials, which are to become the property of the Contractor as they are pulled down, together with all building debris from any cause whatsoever, are to be immediately carted away and the site left clean and unencumbered. Allow for watering the works sufficiently to prevent nuisance from dust

Allow for giving notice to local or other authorities for disconnecting electric light, water and drainage mains and removing telephone wires, etc, and pay all fees in connection therewith and afford every facility to the workmen carrying out this work

All materials in this section are measured as new except where old material is specifically mentioned as being re-used

Old materials, if sound and suitable and approved by the Architect, may be re-used in the new structure. This applies particularly to timber which may be re-used for joists, bracing, fittings, etc and broken bricks and other similar material which may be used as filling and hardcore

Carried to Collection

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SECTION 2 : BUILDING WORKS
Bill No.1 : Demolitions and Alterations

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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Wherever old materials are used instead of the new materials measured, an adjustment will be made by the Quantity Surveyor in the final settlement of accounts by deducting the net cost of the new materials and crediting the Contractor with the amount, if any, allowed by him for the old materials

Where door and window openings, etc, are specified to be filled in, or where jambs, cills, etc are specified to be built up, brickwork shall be of hard burnt clay stock bricks in 5.1 cement mortar unless otherwise specified, cut, toothed and bonded into existing brickwork and pinned up as required with slates or other hard materials. Brickwork built to fair face or in facings is to be of bricks and pointed to match existing. Plaster is to be 5.1 cement plaster unless otherwise specified

Where lintols are specified as precast concrete the prices are to include for breaking out brickwork over for and inserting precast prestressed cement concrete (30MPa) lintol with 230mm bearing on each end size 108 x 75mm deep for each half brick thickness of wall

The term "take out" includes all work taken out, taken up, taken down, taken off, etc ; the term "break up" includes all work broken up, broken down, broken off, etc and the term "hack off" includes all work hacked off, hacked up, hacked down, etc

The term "make good" is to include all labour and material required to match existing work

Carried to Collection

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SECTION 2 : BUILDING WORKS
Bill No.1 : Demolitions and Alterations

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

REMOVAL OF EXISTING WORK

**Demolition of Existing Buildings, Parkings,
Walkways, Assembly Area, Fencing And Cart Away**

1	Demolish concrete slab on foundation.	m3	685
2	Demolish first floor concrete slab.	m3	194
3	Demolish concrete columns.	m3	13
4	Demolish one brick walls.	m2	220
5	Demolish half brick walls.	m2	30
6	Demolish existing netball court.	m2	1,421
7	Demolish existing decant parking area.	m2	643
8	Demolish existing decant walkways.	m2	835
9	Demolish existing decant assembly area.	m2	429
10	Demolish existing decant fencing.	m	499
11	Carefully remove the existing fence and reinstall elsewhere on existing site.	m	303

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SECTION 2 : BUILDING WORKS
Bill No.1 : Demolitions and Alterations

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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SECTION 2 : BUILDING WORKS

Bill No.1 : Demolitions and Alterations

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Item No	Unit	Quantity	Rate	Amount
<u>SECTION 2 - BUILDING WORKS</u>				
<u>BILL No.2 - FOUNDATIONS (PROVISIONAL)</u>				
<u>PREAMBLES</u>				
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section				
<u>Proprietary Products In Descriptions</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<u>Nature Of Material To Be Excavated</u>				
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"				
<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				
Carried to Collection				R
SECTION 2 : BUILDING WORKS Bill No.2 : Foundations				

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator

Carried to Collection

R

SECTION 2 : BUILDING WORKS
Bill No.2 : Foundations

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

<u>EARTHWORKS(CPAP Work Group No. 104 Unless Otherwise Stated)</u>					
<u>Excavations, Filling, Etc</u>					
1	Excavate in earth for surface trenches and holes not exceeding 2000mm deep.	m3	3,232		
2	Extra over excavations in earth to trenches for excavation in soft rock.	m3	323		
3	Ditto, but in hard rock.	m3	247		
4	Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 93% Mod AASHTO density exceeding 500mm and not exceeding 1 500mm deep for placing and removing formwork to columns, walls, beams etc, 500mm away from excavated face.	m2	1,492		
5	Extra over all excavations for carting away from the site all surplus excavated material.	m3	3,232		
6	Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.	m2	11,008		
7	Earth filling obtained from the excavations, deposited, watered and consolidated to 96% modified AASHTO density.	m3	5,024		
8	Allow for keeping excavations free from water.		Item		
9	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	10,596		
10	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated under floors, etc.	m3	252		
11	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	21,598		
Carried to Collection				R	
SECTION 2 : BUILDING WORKS					
Bill No.2 : Foundations					

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

CONCRETE CAST AGAINST EXCAVATED SURFACES (CPAP Work Group No. 110 Unless Otherwise Stated)

Un-reinforced Cement Concrete (10MPa) In

1	Blinding.	m3	63
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Reinforced Cement Concrete (25MPa) In

2	Bases.	m3	539
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3	Slabs including beams.	m3	2,562
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4	Columns.	m3	55
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CONCRETE SUNDRIES (CPAP Work Group No. 110
Unless Otherwise Stated)

Finishing Top Surfaces Of Concrete Smooth With A Wood float

5	Surface beds, slabs, etc.	m2	8,413
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MOVEMENT JOINTS, ETC (CPAP Work Group No. 110 Unless Otherwise Stated)

Saw-cut joints

6	3 x 35mm Saw-cut joints in top of concrete.	m	5,268
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Expansion Joints With 10mm Soft Board Between Vertical Concrete And Brick Surfaces

7	Not exceeding 300mm high to edges of surface beds	m	1,173
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FORMWORK (CPAP Work Group No. 111 Unless Otherwise Stated)

Rough Formwork To

8	Columns.	m2	745
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SECTION 2 : BUILDING WORKS
Bill No.2 : Foundations

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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1	Beams. <u>REINFORCEMENT (CPAP Work Group No. 114 Unless Otherwise Stated)</u> <u>High Tensile Steel Bar Reinforcement To Structural Concrete Work</u>	m2	5,634		
2	Diameter bars. <u>BRICKWORK IN SUPESTRUCTURE (CPAP Work Group No. 118 Unless Otherwise Stated)</u> <u>Brickwork Of NFX Bricks (14Mpa Nominal Compressive Strength) In Class I Cement Mortar</u>	t	236.09		
3	Half brick wall lining on beams. <u>FACE BRICKWORK (CPAP Work Group No. 118 Unless Otherwise Stated)</u> <u>Cape Stormberg Travertine Face Bricks (FBX) Or Similar Approved Delivered To Site And Pointed With Ruled-In Vertical And Horizontal Joints</u>	m2	1,493		
4	Extra over brickwork for face brickwork. <u>DAMP PROOFING TO WALLS AND FLOORS (CPAP Work Group No. 120 Unless Otherwise Stated)</u> <u>One Layer 250 Micron Waterproof Sheeting</u>	m2	647		
5	Under ground beams, slabs and surface beds. <u>One Layer 375 Micron Embossed Dampproof Sheeting</u>	m2	8,413		
6	On walls.	m2	747		
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SECTION 2 : BUILDING WORKS Bill No.2 : Foundations					

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 2 : BUILDING WORKS

Bill No.2 : Foundations

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SECTION 2 : BUILDING WORKS
Bill No.2 : Foundations

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Item No	Unit	Quantity	Rate	Amount
<u>SECTION 2 - BUILDING WORKS</u>				
<u>BILL No.3 - CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>PREAMBLES</u>				
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section				
<u>Proprietary Products In Descriptions</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<u>Cost Of Tests</u>				
The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)				
Should the strength required for the concrete in any portion of the structure not be attained in the test cubes, or should any concrete whatsoever be defective the portion in question is to be demolished and replaced at the expense of the Contractor				
Carried to Collection				R
SECTION 2 : BUILDING WORKS Bill No.3 : Concrete, Formwork and Reinforcement				

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Reinforced Concrete

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

Formwork

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

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

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

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

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

Carried to Collection

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SECTION 2 : BUILDING WORKS

Bill No.3 : Concrete, Formwork and Reinforcement

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

TESTSNOTE: Should The Strength Required For The Concrete In Any Portion Of The Structure Not Be Attained In The Test Cubes, Or Should Any Concrete Whatsoever Be Defective The Portion In Question Is To Be Demolished And Replaced At The Expense Of The Contractor

- 1 Concrete test cubes size 150 x 150 x 150mm overall including testing. (Provisional).

No 150

Un-reinforced Cement Concrete (10MPa) In

- 2 Filling in cavity walls.

m3 57

Reinforced Cement Concrete (25MPa) In

- 3 Columns.

m3 41

- 4 Slabs including beams and inverted beams.

m3 676

- 5 Walls.

m3 14

- 6 Stairs and landings.

m3 30

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

Rough Formwork To

- 7 Sides and soffits of slabs and beams.

m2 1,880

- 8 Rectangular columns not exceeding 3500mm in height above bearing level.

m2 615

- 9 Downstand beams.

m2 904

- 10 Stairs with sloping soffits propped of stairs below

m2 313

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

m 1,350

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SECTION 2 : BUILDING WORKS

Bill No.3 : Concrete, Formwork and Reinforcement

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

**High Tensile Steel Bar Reinforcement To Structural
Concrete Work**

1	Diameter bars.	t	87.80
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SECTION 2 : BUILDING WORKS
Bill No.3 : Concrete, Formwork and Reinforcement

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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

JOINT SEALANTS, ETC.

1	Seal and point around aluminium and/or metal window frames with an approved external quality, sealing compound applied with a pressure caulking gun.
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m	2,812
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2	Rake out 10mm wide joint filler on vertical surfaces of brickwork or concrete for a depth of 15mm and clean, prime and caulk with an approved external quality polysulphide ditto.
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m	1,136
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SECTION 2 : BUILDING WORKS
Bill No.4 : Waterproofing

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 2 : BUILDING WORKS

Bill No.4 : Waterproofing

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Bill No.4 : Waterproofing

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Item No	Unit	Quantity	Rate	Amount
<u>SECTION 2 - BUILDING WORKS</u> <u>BILL No.5 - CARPENTRY & JOINERY</u> <u>(ROOF, DOORS, SKIRTINGS, FASCIAS)</u> <u>(CPAP Work Group No. 126 Unless</u> <u>Otherwise Stated)</u> <u>PREAMBLES</u> For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371" <u>SUPPLEMENTARY PREAMBLES</u> <u>Preambles</u> The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section <u>Proprietary Products In Descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent <u>Joinery</u> Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
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SECTION 2 : BUILDING WORKS				
Bill No.5 : Carpentry & Joinery				

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent

The design, manufacture and transportation of the roof trusses, bracing, etc shall be under the control of a registered Structural Engineer in accordance with SANS 1900, SANS 10160 and SANS 10163, who shall, after erection, provide a certificate confirming that the design, manufacture, transportation, erection and bracing has been carried out in accordance with this specification

Fully detailed shop drawings of all trusses etc, indicating sizes, bracing, loading, etc, shall be submitted to the Principal Agent for approval prior to fabrication

Unless specific erection instructions are given, erection shall be carried out in accordance with the procedures and recommendations of the manual “The Erection and Bracing of Timber Roof Trusses” published by the Institute for Timber Construction and the Council for Scientific and Industrial Research or as detailed by the designer

Roof trusses and bracing shall include design and preparation of shop drawings

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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

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SECTION 2 : BUILDING WORKS
Bill No.5 : Carpentry & Joinery

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SCMU Nu: SCMU5-26/27-0051

ROOFS, ETC

1	38 x 114mm Plate.	m	1,664
2	38 x 228mm Gangboarding.	m	300
3	75 x 150mm laminated SA Pine beam.	m	288

Prefabricated Timber Roof Construction At A Maximum Of 1000mm Centres, 17 Degree Pitch With A 600mm Overhang, Designed For Metal Roof, Including 76 x 50mm S.A. Pine Purlins At Maximum 1020mm Centre To Centre, 152 x 76mm Top And Bottom Chord, 152 x 76mm Diagonals, Tilting Fillet, Runners, Bracing, Cleats, Etc

EAVES AND VERGES

5	12 x 300mm Fascia or bargeboard.	m	1,950
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Meranti Skirtings

6	69 x 16mm Bullnose skirting with rounded top and 19mm hardwood quadrant.	m	3,330
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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

DOORS, ETC

SOLID BRACED AND LEDGED DOORS

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

1	Door D06 - Door size overall 1620 x 2032mm high.	No	21
2	Door D07 - Door size overall 813 x 2032mm high with fanlight.	No	75

SOLID CORE PANEL DOORS

44mm Thick Solid Wood Core Door With Hardwood Concealed Edges Strips And Finished On Both Sides With Commercial Veneer Suitable For Paint And Hung On Timber Frames

3	Door D02 - Door size overall 813 x 2032mm high.	No	70
4	Door D03 - Door size overall 813 x 2032mm high.	No	1
5	Door D08 - Door size overall 1000 x 2032mm high.	No	4
6	Door D09A - Door size overall 813 x 2032mm high.	No	36

SOLID PANEL DOORS

44mm Thick Solid Wood Door With Hardwood Concealed Edges Strips And Finished On Both Sides With Commercial Veneer Suitable For Paint And Hung On Timber Frames

7	Door D01 - Door size overall 1620 x 2032mm high.	No	5
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SECTION 2 : BUILDING WORKS
Bill No.5 : Carpentry & Joinery

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SEMI-SOLID FLUSH PANEL DOORS

**44mm Thick Semi-Solid Wood Flush Panel Door
With Hardwood Concealed Edges Strips And
Finished On Both Sides With Commercial Veneer
Suitable For Paint And Hung On Timber Frames**

1 Door D04 - Door size overall 813 x 2032mm high with
and including clear laminated glass size 500 x 600mm
high.

No 4

2 Door D11 - Door size overall 1700 x 2032mm high.

No 4

FRAMES, ETC

Hardwood

3 105 x 50mm rebated Meranti frame with 19mm quadrant
trim externally.

m 1,157

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SECTION 2 : BUILDING WORKS
Bill No.5 : Carpentry & Joinery

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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SECTION 2 : BUILDING WORKS

Bill No.5 : Carpentry & Joinery

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SECTION 2 : BUILDING WORKS

Bill No.5 : Carpentry & Joinery

Item No	Unit	Quantity	Rate	Amount
<u>SECTION 2 - BUILDING WORKS</u>				
<u>BILL No.6 - IRONMONGERY (CPAP Work Group No. 132 Unless Otherwise Stated)</u>				
<u>PREAMBLES</u>				
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section				
<u>Proprietary Products In Descriptions</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<u>Referencing</u>				
Where items are given with type references, these references are to the drawings attached at the back of these Bills of Quantities				
<u>Descriptions:</u>				
Ironmongery is fixed to timber unless otherwise described				
Carried to Collection				R
SECTION 2 : BUILDING WORKS Bill No.6 : Ironmongery				

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 2 : BUILDING WORKS
Bill No.6 : Ironmongery

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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SECTION 2 : BUILDING WORKS
Bill No.6 : Ironmongery

SCMU Nu: SCMU5-26/27-0051

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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

WELDING AND SEWING WORKSHOP

**6mm Thick Vista Signage System Landscaped Panel
120mm high Finished In Silver Anodised Aluminium
With Convex Frame, Black Plastic End Caps And
Clear/Non Glare Lens (Cut Vinyl Letter At 100mm
High). Backing Fixed To Door With Clear Acrylic
Plate, Cut Black Vinyl (Graphics Reversed And
Applied To Back) And Stainless Steel Wood Screw
Size 30 x 70 x 2mm Thick**

1	WELDING WORKSHOP	No	1
2	SEWING WORKSHOP	No	1
3	STORE	No	1
4	OFFICE	No	2
5	TOOL STORE	No	1

WOODWORK AND PLUMBING WORKSHOP

**6mm Thick Vista Signage System Landscaped Panel
120mm high Finished In Silver Anodised Aluminium
With Convex Frame, Black Plastic End Caps And
Clear/Non Glare Lens (Cut Vinyl Letter At 100mm
High). Backing Fixed To Door With Clear Acrylic
Plate, Cut Black Vinyl (Graphics Reversed And
Applied To Back) And Stainless Steel Wood Screw
Size 30 x 70 x 2mm Thick**

6	WOODWORK WORKSHOP	No	1
7	PLUMBING WORKSHOP	No	1
8	OFFICE	No	2
9	PPE STORE	No	1
10	TOOL STORE	No	2
11	MATERIAL STORE	No	2
12	COMPRESSOR	No	1

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SECTION 2 : BUILDING WORKS
Bill No.6 : Ironmongery

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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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ABLUTIONS

**6mm Thick Vista Signage System Landscaped Panel
120mm high Finished In Silver Anodised Aluminium
With Convex Frame, Black Plastic End Caps And
Clear/Non Glare Lens (Cut Vinyl Letter At 100mm
High). Backing Fixed To Door With Clear Acrylic
Plate, Cut Black Vinyl (Graphics Reversed And
Applied To Back) And Stainless Steel Wood Screw
Size 30 x 70 x 2mm Thick**

1	STORE	No	2
2	MALE	No	2
3	FEMALE	No	2
4	PARAPLEGIC	No	2
5	DUCT	No	1

CLASSROOMS

**6mm Thick Vista Signage System Landscaped Panel
120mm high Finished In Silver Anodised Aluminium
With Convex Frame, Black Plastic End Caps And
Clear/Non Glare Lens (Cut Vinyl Letter At 100mm
High). Backing Fixed To Door With Clear Acrylic
Plate, Cut Black Vinyl (Graphics Reversed And
Applied To Back) And Stainless Steel Wood Screw
Size 30 x 70 x 2mm Thick**

6	STORE	No	6
7	HOD	No	4
8	WORK ROOM	No	2
9	CLASSROOM 01	No	1
10	CLASSROOM 02	No	1
11	CLASSROOM 03	No	1
12	CLASSROOM 04	No	1

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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

1	CLASSROOM 05	No	1	
2	CLASSROOM 06	No	1	
3	CLASSROOM 07	No	1	
4	CLASSROOM 08	No	1	
5	CLASSROOM 09	No	1	
6	CLASSROOM 10	No	1	
7	CLASSROOM 11	No	1	
8	CLASSROOM 12	No	1	
9	CLASSROOM 13	No	1	
10	CLASSROOM 14	No	1	
11	CLASSROOM 15	No	1	
12	CLASSROOM 16	No	1	
13	CLASSROOM 17	No	1	
14	CLASSROOM 18	No	1	
15	CLASSROOM 19	No	1	
16	CLASSROOM 20	No	1	
17	CLASSROOM 21	No	1	
18	CLASSROOM 22	No	1	
19	CLASSROOM 23	No	1	
20	CLASSROOM 24	No	1	
21	CLASSROOM 25	No	1	
22	CLASSROOM 26	No	1	
23	CLASSROOM 27	No	1	
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Bill No.6 : Ironmongery				

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 2 : BUILDING WORKS
Bill No.6 : Ironmongery

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

1	32mm diam. standard stainless steel grade 304 satin polished finish rear grab rail around cistern (code SR2A) fixed to wall strictly to manufacturers specifications. Supplied complete with stainless steel fixing screws and plastic wall plugs for fixing.	No	5		
2	32mm diam. standard stainless steel grade 304 satin polished finish side grab rail (code DL2) fixed to wall strictly to manufacturers specifications. Supplied complete with stainless steel fixing screws and plastic wall plugs for fixing.	No	5		
3	Twinpak Skincare soap dispenser colour White (code: SA921950); overall size 184 x 110 x 264mm high.	No	43		
4	Reflex disposer bin (code: SA426213) Colour: White.	No	29		
5	Wastecare wall mounted paper wiper dispenser (code: SA426104) and overall size 310 x 280 x 400mm high or equal and approved, supplied & installed by contractor. Position to architects approval. Colour: White.	No	27		
6	600mm x 19mm diameter chrome plated towel rail with chrome plated flange brackets fixed to wall, plugged and screwed with C.P. screws.	No	5		
7	Build-in soap tray size 165 x 165mm. Colour: White - vitreous china. Recessed into wall.	No	5		
8	KP2.6 fixed shower head - power vandal - resistant with self-cleaning spray nozzle G M1 - CP.	No	4		
9	Watertech Star 15mm FI x FI under tile stoptap with sliding wall flange (Code: 128-15) and manufactured in accordance with SANS 226:2004 Type 1 (BS 5412).	No	4		
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Bill No.6 : Ironmongery					

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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Bill No.6 : Ironmongery

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SECTION 2 : BUILDING WORKS

Bill No.6 : Ironmongery

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Item No	Quantity	Rate	Amount
<u>SECTION 2 - BUILDING WORKS</u> <u>BILL No.7 - STRUCTURAL STEELWORK</u> <u>(CPAP Work Group No. 134 Unless</u> <u>Otherwise Stated)</u> For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371" <u>SUPPLEMENTARY PREAMBLES</u> Fabrication and erection shall be done in accordance with SABS 0162 & 1200H Minimum 6mm continuous welds shall be used unless otherwise stated Steelwork must be painted with one layer of zinc chromate primer immediately after fabrication <u>Steel Strengths</u> Hot rolled structural steel = Grade 350W Cold rolled structural steel = Grade 300W Weld 12mm flats inside flanges of columns with 6mm continuous fillet welds and bolt lattice girders or trusses to flats (where applicable) Allowances for Scaffolding, Cranes and Lifting Equipment should be made. Allowances for scaffolding, cranes, lifting equipment and all other associated costs not mention below should be made.			
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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GALVANISED STEEL TRUSSES

**Welded Roof Trusses Of Angle Rafters, Tie Beams,
Rails, Struts, Braces, Cleats, Etc And Flat Bearer,
Gusset And Connection Plates, Bolted To Steel**

1	406 x 178 x 54 x 53.8kg/m rafters.	t	20
2	305 x 102 x 25 x 24.5kg/m rafters.	t	1
3	75 x 75 x 3.0mm x 6.54kg/m SHS frame.	t	1

STEEL COLUMNS AND BEAMS

**Welded Plate Columns, With Flat Base, Cap, Bearer
And Connection Plates, Bolted To Concrete**

4	305 x 102 x 33kg/m Universal beam.	t	5.84
5	406 x 178 x 54 x 53.8kg/m columns.	t	9
6	100 x 100 x 4 x 5 x 14.24kg/m column.	t	1
7	75 x 75 x 3.0mm x 6.54kg/m SHS column.	t	1

**GALVANISED STEEL PURLINS, GIRTS,
BRACING, ETC**

Purlins And Girts, Bolted To Steel

8	175 x 75 x 20 x 2.5 x 6.8kg/m purlin.	t	6
9	100 x 50 x 3.0mm x 6.54kg/m SHS purlin.	t	1
10	225 x 75 x 20 x 2.5 x 7.29kg/m purlin.	t	1
11	114 x 4 x 10.9kg/m eaves struts.	t	2
12	127 x 4 x 12.1kg/m horizontal bracing.	t	1

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Bill No.7 : Structural Steel

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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 2 : BUILDING WORKS
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Bill No.7 : Structural Steel

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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

STEEL SHELVING

1	Steel shelving 400mm wide x 1800mm high as per sectional elevation A comprising of structural steel shelf, galvanised wall brackets. Refer to drawing number A937.	m	4
2	2000mm High steel-rod storage shelves, comprising 6 x No. 483mm wide tubular steel arms at 800mm centre welded on a 5mm galvanized steel plate bolted on wall with HILTI KBS SS304-1/4 stainless steel standard thread anchor. Refer to drawing number A959.	m	6
3	Welding screen size 2000 x 2000mm high with and including yellow PVC curtain on brass eyelets.	No	8
4	Shelving unit size 400mm wide x 1998mm high, fixed to wall comprising steel shelf and steel wall brackets. (Refer to drawing number A940).	m	24

BALUSTRADING (CPAP Work Group No. 136 Unless Otherwise Stated)

Balustrade System 1122mm high, Composed of 75mm Diameter Vertical Galvanised Mild Steel Hollow Section Post At 1300mm Centres With 12mm Diameter Gauge Galvanised Mild Steel Rod, 50mm Diameter Galvanised Mild Steel Handrail And 12mm Diameter Circular Galvanised Mild Steel Vertical Member Welded To 32mm Diameter Galvanised Mild Steel Frame Spaced At Minimum 100mm Centres With 40 x 3mm Thick Galvanised Mild Steel Central Balustrade Panel

5	Galvanised mild steel balustrade.	m	220
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Bill No.8 : Metalwork

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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<u>MILD STEEL GATES (CPAP Work Group No. 136 Unless Otherwise Stated)</u>				
<u>Hot Dipped Galvanised After Fabrication Mild Steel Welded Screens And Gates With Frames, Mitred Intersections, Ironmongery, Etc And Fixed Complete All As Attached Drawings</u>				
1	Security gate type G01A size 1600 x 2400mm high supplied and installed complete with ironmongery.	No	10	
2	Security gate type G02 size 2115 x 2100mm high supplied and installed complete with ironmongery.	No	16	
3	Security gate type G06 size 1000 x 2550mm high supplied and installed complete with ironmongery.	No	77	
4	Security gate type G11 size 1080 x 2140mm high supplied and installed complete with ironmongery.	No	3	
<u>ROLLERSTYLE ADD ON INTERNAL SURFACE MOUNT PRE-PAINTED ALUMINIUM ROLL-UP DOORS (CPAP Work Group No. 136 Unless Otherwise Stated)</u>				
5	D13 - Push up operation roller shutter door with overhead gear, guides, fixing bolts, etc., to suit clear opening size 1430 x 1200mm fixed in position and including mortices in brickwork or concrete for fixing bolts.	No	3	
6	D19 - Push up operation roller shutter door with overhead gear, guides, fixing bolts, etc., to suit clear opening size 1617 x 2921mm fixed in position and including mortices in brickwork or concrete for fixing bolts.	No	2	
7	D20 - Push up operation roller shutter door with overhead gear, guides, fixing bolts, etc., to suit clear opening size 2425 x 2921mm fixed in position and including mortices in brickwork or concrete for fixing bolts.	No	1	
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Design and installation:

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

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

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

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

Fire resistance:

The installation shall conform to the local authorities resistance standards.

Protection and cleaning:

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

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

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**ALUMINIUM WINDOWS (CPAP Work Group No. 136
Unless Otherwise Stated)**

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

**Purpose Made Powder Coated Aluminium Windows
Complete With 'Sheerline' Industrial Sections Or
Equal Approved Natural Anodised Frames In Brick
Openings, Glazed With And Including 6,4mm Thick
Intruderprufe Clear Laminated Safety Glass Installed
As Per Manufacturer's Instructions. All Windows To
Include 10mm Galvanized Mild Steel Square Bar
Frames At 140mm Centre Fixed To The Inside Of
The Window**

1	W01 - Window size 889 x 1248mm high comprises of one fixed panel and two equal top hung openings.	No	336
2	W02 - Window size 2489 x 1245mm high comprises of four fixed panel and two equal top hung openings.	No	6
3	W03 - Window size 1022 x 654mm high comprises of one fixed panel and one top hung opening.	No	7
4	W04 - Window size 1022 x 1245mm high comprises of two equal top hung openings and four top hung openings.	No	6
5	W05 - Window size 1022 x 1245mm high comprises of four fixed panels and two equal top hung openings.	No	15
6	W06 - Window size 533 x 654mm high comprises of four fixed panels and two equal top hung openings.	No	71
7	W07 - Window size 889 x 854mm high comprises of one fixed panel and one top hung opening.	No	156
8	W08 - Window size 1600 x 654mm high comprises of one fixed panel and two equal top hung openings.	No	11
9	W10 - Window size 1500 x 1145mm high comprises of one fixed panel.	No	18

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SANITARY FITTINGS

NOTE:

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

Stainless Steel Sinks, Drainers And Urinals

SOIL DRAINAGE

Rigid PVC Socketed Soil Piping (SABS 791) With Bedding And Filling As Laid Out In SABS 1200 LB - Bedding Flexible Pipes, Backfilling With Excavated Material

1	110mm Pipe and excavation not exceeding 1000mm deep.	m	146	
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SANITARY PLUMBING

Rigid PVC Socketed Soil, Waste Or Vent Piping (SABS 967)

2	50mm Ditto.	m	12	
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Extra For

3	110mm End cap.	No	4	
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4	50mm Bend.	No	11	
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5	110mm Access bend.	No	12	
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Chromium Plated Brass

6	40 x 40mm Bottle trap	No	9	
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7	PVC side outlet with "S" or "P" trap.	No	47	
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8	345/40 1 " x1 " chrome plated bottle trap with 75mm deep seal, inlet screwed female for 40mm PVC waste.	No	94	
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Bill No.9 : Plumbing & Drainage (Provisional)

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1	Chrome plated brass waste outlet fitting with 62mm flange to suit 48mm diameter waste hole, threaded tail complete with backnut and washer, bedded in silicone sealant; 1¼" (32mm) to wash hand basins.	No	94		
2	Chemical resistant polypropylene waste outlet fitting, 1½" (40mm), unslopped, to laboratory sink, with flange, backnut and washer bedded in chemical resistant sealant, complete with removable polypropylene strainer basket in lieu of plug and chain. Including 40mm polypropylene P-trap with 75mm deep seal and screwed cleaning eye, connected to 40mm PVC waste. All materials to resist dilute acids and alkalis and intermittent discharge at 90°C.	No	20		
3	317-40 1½" sink waste chrome plated with 62mm flange, 45mm long shank, unslopped with backnut. G M1.	No	13		
4	40mm PVC P-trap with inspection eye secured and fitted to waste outlet of sink unit.	No	13		
5	Watertech 40mm chrome plated anti-theft plug with 72mm spindle (code: 309-40), manufactured from corrosion resistant DZR brass, to suit 40mm waste outlets.	No	13		
<u>Traps</u>					
6	Precast concrete or moulded polyethylene grease trap with removable airtight cover, inlet and outlet baffles and minimum 40mm invert drop, installed below ground on the discharge from the kitchen and cookery sinks upstream of the connection to the sewer. Capacity to the wet services engineer's calculation based on the fixtures served. Cover to the load class of the surrounding surface. All installed to manufacturers recommendations and in accordance with SANS 10400 Part P.	No	2		
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<u>Quality (18/8) Type 304</u>					
1	Stainless steel inset kitchen sink, size 750 x 400mm, single bowl with left hand drainer, 40mm waste outlet and single taphole. Sink fitted onto cupboard unit elsewhere measured and cupboards to detail.	No	9		
2	Double bowl prep sink, 1850mm centre bowl configuration (code: CVPD9418C), overall size 1850(W) x 650(D) x 1050(H). Body and frame 0.9mm 430 grade stainless steel with pressed bowls in AISI 304 grade stainless steel, 40mm waste outlets, 50mm high rear splashback, heavy duty backing sheet with bitumastic sound deadening, on stainless steel legs with adjustable feet for levelling.	No	4		
3	1500 x 535 double centre bowl, code 312880. Sink fitted onto cupboard unit elsewhere measured and to detail. Waste outlet, trap and plug to each bowl.	No	2		
4	Stainless steel 304 full flow floor trap 125x125mm size to connect to a 50mm dia outlet with rounded flange for epoxy floors with slots or equivalent.	No	5		
5	Oval-B wash-hand basin manufactured from 1.2mm grade 304 (18/10) stainless steel with a one-piece pressed bowl and a 50mm splashback and radius apron. Single taphole required. Fixed to wall with 20mm stainless steel square tubing brackets welded to underneath basin. Cost of the basin to include watertech 32mm chrome plated anti-theft plug with spindle (code: 309-32).	No	50		
6	Wall mounted plumbed emergency eyewash unit, stainless steel, with two aerated spray heads, flip-top dust covers and hands-free stay-open valve. Receptor bowl with 40mm waste outlet connected to the drainage installation. Tepid water supply. All performance and positioning in accordance with ANSI/ISEA Z358.1. Clearly signed and kept unobstructed. Colour: Safety green.	No	2		
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White Glazed Vitreous China Fittings Including Assembling And Fixing In Position, Expanding Bolts And Mortices In Brick Or Concrete Walls, Connecting Up, Etc. (Tap And Mixer Set Reference Numbers Are Those Of Cobra Brassware)

1	Vaal vitreous china "Protea Paraplegic" 90° outlet pan (code 7502) and matching 9 litre cistern (code 710539) complete with lid, fitments and purpose-made C.P. side-flush lever mounted on wall adjacent to cistern (left). Bottom inlet water supply must be on same side as flush lever. Heavy duty solid plastic toilet seat and lid type A1 Delux to be securely fitted. (Refer to T1 and T7 of the sanitary schedule)	No	5
2	Vaal Sanitary ware hibiscus vitreous china close coupled wash-down suite colour: White, comprising 90° outlet open rim pan (code: 772600) and matching 9 litre front single flush cistern (code: 710533) including lid and fitments. Heavy duty solid plastic toilet seat and lid type A1 Delux to be securely fitted. (Refer to T1 and T7 of the sanitary schedule).	No	4
3	Vaal Sanitaryware vitreous china 6 litre "Hibiscus Elite Duct" cistern (code 7116DP), complete with lid, fitments, push button mechanism and duct flush pipe with and including vaal sanitaryware vitreous china "Parktown" 90° outlet back inlet (code 431600) closed rim backto-wall pan. Heavy duty solid plastic toilet seat and lid type A1 Delux to be securely fitted. (Refer to T1 and T7 of the sanitary schedule).	No	38
4	Vaal flamingo vitreous china wall mounted basin (code: 7007), size 560 x 405 mm with one tap hole including integrated over flow and chain stay hole through the centre semi-punched tap hole. Basin bolted with 10mm bolts (code 844820). Basins installed by bolting to wall using No. 2 x SR1018XX each; all to manufacturers recommendations. Cost of the basin to include watertech 32mm chrome plated anti-theft plug with spindle (code: 309-32).	No	14

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1	Vaal Sanitary ware Bantam vitreous china wall mounted basin colour White (code: 7030), size 455 x 290mm with one tap hole, including integrated overflow and chain stay hole bolted to wall with two 10mm bolts (code: 8448Z0) and sealed with silicone sealant where basin meets wall. Allow for silicone bead to all edges of basin and at base of the tiles, all to detail. Colour: to Architects approval. Any excess silicone to be cleaned away, all to manufacturers specifications.	No	10		
2	Vaal Sanitary ware 600 x 385 x 380mm Lavatera white vitreous china wall mounted back inlet urinal (code: 705427) including 38mm chromium plated domical grating (code: 8787Z0) and chromium plated back inlet spreader (code: 7054Z2), flush valve, flush pipe and fittings fixed on and including two hanger brackets (code: 8127Z0).	No	5		
3	Back entry barron urinal BE (code: 333200), manufactured from 1.2mm grade 304 (18/10) stainless steel (code: 356076), colour stainless steel, wall mounted on and including concealed fixing brackets. Flush valve, flush pipe and fittings.	No	12		
4	Vaal Sanitaryware fine fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow with a centre end waste outlet. Including the sink pillar tap. Swivel outlet not supplied. ½" BSP male inlet. SANS 226 TYPE1.	No	20		
5	2700 x 470mm Polyethylene wash trough bolted to wall, colour - granite grey.	No	3		
	<u>Floor Drains, etc:</u>				
6	Stainless steel grade 304 or similar approved floor drain size 150 x 150 x195mm deep with 50mm fitted and connected complete.	No	4		
7	Vaal 455 x 100 white glazed floor channels (code 1500) and stopend (code 1502) and stopend with outlet (code 1503). 75mm chromium plated hinged dome grating (code 8270).	No	2		
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<u>HOT AND COLD WATER SUPPLY</u>					
<u>Class 2 Medium Copper Pipes</u>					
1	15mm Pipe and fixing to walls, floors, in roofs, soffit of concrete slab, in chases (including chases), in concrete, etc.	m	59		
<u>Extra For Conex Brass Compression Type Fittings</u>					
2	15mm Fittings.	No	13		
3	22mm Fittings.	No	4		
<u>TAPS, VALVES ETC</u>					
<u>"Cobra Watertech" Or Equal Approved</u>					
4	15mm No.232/350 CP angle regulating valves complete with flexible connector.	No	1		
5	15mm Conex compression type under wall stop tap, chrome plated (code 138-15) Star pattern, for control of water supply.	No	47		
6	505-21B elbow action pillar tap; square pattern chrome plated with turn ceramic disk head part & blue and red indicators for cold and hot water application & flanged backnut. G M1 inlet.	No	14		
7	Star 111 -15 chrome plated pillar taps with flanges and backnuts. G M1 inlet.	No	80		
8	15mm chrome plated medical elbow action wall type sink mixer with aerated swan-neck swivel outlet (code: 515/055-21/N). Including ¼ turn ceramic disc headparts, ½" BSP male inlets, fixed centre bent inlet connections and hook for swivel outlet.	No	2		
9	Shut-off valve / stopcock to sink unit within cupboard below to Cobra water supply reticulation.	No	2		
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1	Concealed junior flushmaster urinal flush valve (code: FJ8.102), comprising front access box with palm press, tailpipe, face plate and ball-o-stop, in DZR brass with chrome finish, complete with flush pipe and fittings.	No	17		
2	Watertech "Star" 15mm one hole sink mixer, chrome plated, with aerated swivel outlet (code: 296), ½" BSP female inlets to hot and cold supply, mounted through single taphole in sink top. Including Cobra 15mm compression type angle regulating valves to both inlets.	No	9		
3	Hose bib-tap (code:108LK-15).	No	3		
4	Bloc 560A drinking fountain as per Enviro Element or similar approved.	No	6		
5	15mm rough brass demand bib tap (code: KM 2.203-15 / S-KM9.201B) or equal and approved; with flow controller and adjustable cycle time, non-hold-open feature, complete with backnut and washer.	No	3		
	<u>TESTING</u>				
6	Testing water pipe system.		Item		
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TOPS, SHELVES, DOORS, MIRRORS, ETC.

**6mm Silvered Mirror With Polished Bevelled Edges
All Round; To Perimeter Edge. Four Times Holed
For Fixing To Wall Plugged And Screwed With
Chrome Plated Dome Headed Screws. Mirror To Be
Supplied And Installed By Contractor**

1	Mirror size 400 x 600mm high.	No	36
2	Mirror size 400 x 800mm high.	No	7

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Bill No.10 : Glazing

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Bill No.10 : Glazing

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SECTION 2 : BUILDING WORKS

Item No	Quantity	Rate	Amount
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<u>BILL No. 1 - SITE WORKS</u>			
<u>PREAMBLES</u>			
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<u>Nature Of Material To Be Excavated</u>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"			
<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			
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Bill No.1 : Site Works			

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Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Remeasurement

Final remeasurement of quantities to be done after completion

QUALIFICATION TO STANDARD SYSTEM OF MEASURING

These Bills of Quantities and General specification are to be read in conjunction with SABS 1200

NOTE: Clause 8 of SABS 1200 - Measurement and payment in the abovementioned specification will not be applicable and the description and rates in this document will form the basis for calculating the final value of the works together with any variations authorised by the Architect/Engineer

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Bill No.1 : Site Works

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Notwithstanding the clauses of the Standard System of Measuring Builder's Work - Amendments to 6th Edition and also the preceding Preambles, various alterations and adjustments have been made in the preparation of the Bulk Earthworks Bills of Quantities

Tenderers are to note the alterations and adjustments within the relevant clauses and price accordingly. No claims will be entertained regards these alterations and adjustments

SEQUENCE OF WORKS

Restricted access of the works, access to and from the site, discontinuity of works must be assessed and included for in the relevant items herein

EARTHWORKS

Nature of ground

Descriptions of excavations shall be deemed to include all ground conditions other than "Hard Rock"

"Hard Rock" shall mean granite, quartzitic sandstone or other rock of similar hardness which, in the Engineers opinion, requires drilling, wedging and splitting or the use of explosives etc

All excavation volumes are measured nett - no allowance made for bulking

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Bill No.1 : Site Works

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<u>EARTHWORKS(CPAP Work Group No. 104 Unless Otherwise Stated)</u>				
<u>Site Clearance</u>				
1	Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site.	m2	43,132	
<u>Excavations, Filling, Etc</u>				
2	Excavate in earth to open face over site to reduce levels.	m3	13,500	
3	Extra over bulk excavations in earth for excavation in soft rock.	m3	338	
4	Extra over all excavations for carting away from the site all surplus excavated material.	m3	4,700	
5	Extra over all excavations for stockpiling.	m3	8,800	
6	Earth filling obtained from the excavations, deposited, watered and consolidated to 96% modified AASHTO density.	m3	8,800	
7	Scarify, mix and consolidate top 150mm of subgrade to 90% modified AASHTO density.	m2	23,580	
<u>Testing</u>				
8	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	50	
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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.1 : Site Works

R

Item No	Quantity	Rate	Amount
<u>SECTION 3 - EXTERNAL WORKS</u>			
<u>BILL No.2 - ASSEMBLY SLABS, ETC</u>			
<u>PREAMBLES</u>			
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<u>Nature Of Material To Be Excavated</u>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"			
<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			
Carried to Collection			R
SECTION 3 : EXTERNAL WORKS (PROVISIONAL) Bill No.2 : Safe Play Court			

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Reinforced Concrete

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

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.2 : Safe Play Court

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

Excavations, Filling, Etc

1	Earth filling supplied G5 Material by the Contractor, compacted to 93% Mod AASHTO density.	m3	754		
2	Scarify, mix and consolidate top 150mm of subgrade to 90% modified AASHTO density.	m2	5,029		

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

One Layer 250 Micron Waterproof Sheeting

3	Under concrete walkways.	m2	5,029		
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Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.2 : Safe Play Court

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.2 : Safe Play Court

COLLECTION

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.2 : Safe Play Court

R

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Reinforced Concrete

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

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.3 : Roadwork and Parking, Etc

R

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.3 : Roadwork and Parking, Etc

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Bill No.3 : Roadwork and Parking, Etc

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Bill No.3 : Roadwork and Parking, Etc

Item No	Quantity	Rate	Amount
<u>SECTION 3 - EXTERNAL WORKS</u>			
<u>BILL No.4 - ROADS, PARKING, Etc</u>			
<u>PREAMBLES</u>			
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<u>Nature Of Material To Be Excavated</u>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"			
<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			
Carried to Collection		R	
SECTION 3 : EXTERNAL WORKS (PROVISIONAL) Bill No.4 : Roadwork and Parking (Mini Circle and Drop Of			

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Reinforced Concrete

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

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.4 : Roadwork and Parking (Mini Circle and Drop Of

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

<u>EARTHWORKS (CPAP Work Group No. 104 Unless Otherwise Stated)</u>					
<u>Excavations, Filling, Etc</u>					
1	G2 Material by the Contractor, compacted to 96% Mod AASHTO density.	m3	111		
2	G5 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 95% modified AASHTO density.	m3	111		
3	Scarify, mix and consolidate top 150mm of subgrade to 90% modified AASHTO density.	m2	743		
<u>PRECAST CONCRETE (CPAP Work Group No. 112 Unless Otherwise Stated)</u>					
<u>Precast Cement Concrete (20MPa) Kerbs And Channels Finished Smooth From The Mould On Exposed Surfaces And Including Excavation, Backfilling, Etc</u>					
4	Fig. 3 kerb to SABS 927, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course, bedded on a 45mm thick x 300mm wide layer of 3.1 cement mortar with 100 x 100 x 200mm long triangular haunching behind kerb at all joints and jointed in 3.1 cement mortar.	m	289		
<u>ASPHALT</u>					
5	40mm continuously graded, medium on primer.	m2	743		
<u>SIGNAGE AS PER DRAWING NUMBER E086-100-010</u>					
6	SPEED HUMP (W332)	No	2		
7	SPEED LIMIT (R201-20)	No	2		
8	60 x 4mm Galvanised round steel post, 2000mm high (W401 & W402)	No	2		
Carried to Collection				R	
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)					
Bill No.4 : Roadwork and Parking (Mini Circle and Drop Of					

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.4 : Roadwork and Parking (Mini Circle and Drop Off Zone)

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.4 : Roadwork and Parking (Mini Circle and Drop Of

R

Item No	Unit	Quantity	Rate	Amount
<u>SECTION 3 - EXTERNAL WORKS</u>				
<u>BILL No. 5 - WATER SUPPLY, WATER TANKS AND STANDS</u>				
<u>PREAMBLES</u>				
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section				
<u>Proprietary Products In Descriptions</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<u>Nature Of Material To Be Excavated</u>				
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"				
<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				
Carried to Collection				R
SECTION 3 : EXTERNAL WORKS (PROVISIONAL) Bill No.5 : Water Supply, Water Tanks and Stands				

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Reinforced Concrete

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

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.5 : Water Supply, Water Tanks and Stands

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

<u>WATER SUPPLY PIPES</u>				
<u>EARTHWORKS (CPAP Work Group No. 104 Unless Otherwise Stated)</u>				
1	Excavate in earth for surface trenches and holes not exceeding 2000mm deep.	m3	1,292	
2	Extra over bulk excavations in earth for excavation in soft rock.	m3	129	
3	Extra over all excavations for carting away from the site all surplus excavated material.	m3	1,292	
4	Earth filling obtained from the excavations, deposited, watered and consolidated to 96% modified AASHTO density.	m3	830	
5	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated in 50mm thick blinding layer under floors, etc.	m3	461	
<u>MEDIUM PRESSURE PIPES (CPAP Work Group No. 148 Unless Otherwise Stated)</u>				
<u>Supply, Lay, Joint, Bed (Class B Bedding), Test And Disinfect The Following Class 12 uPVC Pipes</u>				
6	For 32mm diameters HDPE water pipe class 12.	m	699	
7	For 75mm diameters HDPE water pipe class 12.	m	207	
8	For 110mm diameters uPVC water pipe class 12.	m	324	
<u>Extra-over For Supplying, Laying & Bedding Of The Following Sized Fittings:</u>				
9	32mm diameter corners.	No	14	
10	75mm diameter corners.	No	4	
11	110mm diameter corners.	No	9	
Carried to Collection				R
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
Bill No.5 : Water Supply, Water Tanks and Stands				

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.5 : Water Supply, Water Tanks and Stands

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

<u>RAINWATER TANKS AND STANDS</u>			
<u>EARTHWORKS (CPAP Work Group No. 104 Unless Otherwise Stated)</u>			
<u>Excavations, Filling, Etc</u>			
1	Excavate in earth to open face over site to reduce levels.	m3	18
2	Extra over bulk excavations in earth for excavation in soft rock.	m3	2
3	Extra over all excavations for carting away from the site all surplus excavated material.	m3	18
4	G7 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 96% modified AASHTO density in 500mm thick sub-base course under roads.	m3	9
5	Earth filling (G5), selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density under floors, etc.	m3	9
6	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	58
7	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	72
<u>CONCRETE(CPAP Work Group No. 110 Unless Otherwise Stated)</u>			
<u>Reinforced Cement Concrete (25MPa) In</u>			
8	Cement concrete in water tank stands cast in panels not exceeding 6m2.	m3	58
Carried to Collection			R
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.5 : Water Supply, Water Tanks and Stands			

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.5 : Water Supply, Water Tanks and Stands

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

Lockable Tap Cover Provided With Padlock

1	Water tank taps with padlock.	No	6
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**ELEVATED WATER TANKS (CPAP Work Group
No. 118 Unless Otherwise Stated)**

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

Excavations, Filling, Etc

2	Excavate in earth to open face over site to reduce levels.	m3	41
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3	Extra over bulk excavations in earth for excavation in soft rock.	m3	4
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4	Extra over all excavations for carting away from the site all surplus excavated material.	m3	41
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5	G7 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 96% modified AASHTO density in 500mm thick sub-base course under roads.	m3	21
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6	Earth filling (G5), selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density under floors, etc.	m3	21
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7	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	138
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8	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	14
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Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.5 : Water Supply, Water Tanks and Stands

R

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.5 : Water Supply, Water Tanks and Stands

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

**PLUMBING (CPAP Work Group No. 118 Unless
Otherwise Stated)**

Water Storage Tanks

- 1 Supply and install 228Kl divisional tanks comprises of 130kl for fire tank and 98kl for domestic tank. Connect water tank to the existing reticulation complete with all fittings.

Item

Carried to Collection

R

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.5 : Water Supply, Water Tanks and Stands

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Bill No.5 : Water Supply, Water Tanks and Stands

Item No	Unit	Quantity	Rate	Amount
<u>SECTION 3 - EXTERNAL WORKS</u>				
<u>BILL No. 6 - STORMWATER DRAINAGE</u>				
<u>PREAMBLES</u>				
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preambles</u>				
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section				
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Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<u>Nature Of Material To Be Excavated</u>				
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"				
<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				
Carried to Collection				R
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
Bill No.6 : Stormwater Drainage, Etc				

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.6 : Stormwater Drainage, Etc

R

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

<u>DAMP PROOFING TO WALLS AND FLOORS (CPAP Work Group No. 120 Unless Otherwise Stated)</u>					
<u>One Layer 250 Micron Waterproof Sheeting</u>					
1	Under v-drains.	m2	1,103		
<u>uPVC Class 34 Stormwater Pipes</u>					
2	450mm Pipe and excavation not exceeding 1000mm deep.	m	444		
3	450mm Pipe and excavation exceeding 1000mm and not exceeding 2000mm deep.	m	92		
4	600mm Pipe and excavation not exceeding 1000mm deep.	m	88		
<u>Junction Boxes, Catchpits, Kerb Inlets, Etc</u>					
5	Excavate for and build catchpit size 1000 x 1000mm x 1500mm deep internally, formed of 150mm thick cement concrete (20MPa) bottom, 220mm brickwork plastered both sides, 1000 x 1000mm precast HD CI slab with 550 x 550mm heavy duty 2916 type F grating, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	6		
6	Ditto build catchpit size 1000 x 1000mm x 1800mm deep internally, formed of 150mm thick cement concrete (20MPa) bottom, 220mm brickwork plastered both sides, 1000 x 1000mm precast HD CI slab with 550 x 550mm heavy duty 2916 type F grating, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	8		
<u>MEGAFLO DRAINAGE</u>					
7	Excavate trench 500mm wide x 200mm deep with and including the supply and installation of a 300 mm x 40 mm Megaflo drain system (or approved equivalent), wrapped in Bidim A14 geotextile (or similar approved geotextile), complete with surrounding no-fines concrete, all in accordance with the project specifications and drawings.	m	812		
Carried to Collection				R	
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)					
Bill No.6 : Stormwater Drainage, Etc					

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.6 : Stormwater Drainage, Etc

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Bill No.6 : Stormwater Drainage, Etc

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.7 : Sewer Drainage

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

<u>EARTHWORKS (CPAP Work Group No. 104 Unless Otherwise Stated)</u>				
<u>Excavate In All Materials (Labour Intensive) For Trenches, Backfill & Compact Including Disposal Of Surplus Or Unsuitable Material For 110mm Up To 250mm Diameter Solid Wall Class 34 Sewer Pipe For Depths</u>				
1	Excavate in earth for surface trenches and holes not exceeding 2000mm deep.	m3	696	
2	Extra over bulk excavations in earth for excavation in soft rock.	m3	81	
3	Extra over all excavations for carting away from the site all surplus excavated material.	m3	807	
4	Earth filling obtained from the excavations, deposited, watered and consolidated to 96% modified AASHTO density.	m3	604	
5	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated in 50mm thick blinding layer under floors, etc.	m3	203	
<u>uPVC SEWER PIPES (CPAP Work Group No. 146 Unless Otherwise Stated)</u>				
<u>Supply, Handle, Lay, Bed (Class B Bedding) And Test, HDPE Sewer Pipes With Solid Walls And Rubber Ring Joints To SANS 791 With Minimum Hoop Stiffness Of 300kPa</u>				
6	For 110mm diameters uPVC water pipe class 34.	m	241	
7	For 160mm diameters uPVC water pipe class 34.	m	384	
<u>Extra For</u>				
8	110mm Junction.	No	6	
9	160mm Junction.	No	7	
Carried to Collection				R
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
Bill No.7 : Sewer Drainage				

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

1	110mm Bend.	No	4	
2	160mm Bend.	No	8	
3	160mm Corner.	No	4	
4	160mm Corner.	No	4	
<u>MANHOLES (CPAP Work Group No. 148 Unless Otherwise Stated)</u>				
<u>Manholes Of Pre-Cast Concrete With Depth To Invert As Shown Including Channelling, Benching And Heavy Duty Precast Concrete Cover Over Frame Type As Per The Standard Detail</u>				
5	1000mm diameter manhole to depths not exceeding 1000mm deep.	No	4	
6	1000mm diameter manhole to depths exceeding 1000mm deep and not exceeding 2000mm deep.	No	5	
7	1000mm diameter manhole to depths exceeding 2000mm deep and not exceeding 3000mm deep.	No	4	
8	1000mm diameter manhole to depths exceeding 3000mm deep and not exceeding 4000mm deep.	No	1	
<u>ERF CONNECTION (CPAP Work Group No. 148 Unless Otherwise Stated)</u>				
<u>Supply And Install, Including Concrete Bedding And Wire Markers For The Following</u>				
9	160mm x 110mm x 450 uPVC junctions.	No	11	
<u>Supply And Install Male Socket Plug End Caps For The Following Pipe Junctions</u>				
10	110mm diameter socket.	No	11	
11	110mm diameter rodding eye at starting point of 110mm pipeline for building connection.	No	5	
Carried to Collection				R
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)				
Bill No.7 : Sewer Drainage				

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.7 : Sewer Drainage

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.7 : Sewer Drainage

R

Item No	Quantity	Rate	Amount
<u>SECTION 3 - EXTERNAL WORKS</u>			
<u>BILL No. 9 - RETAINING WALLS, ETC</u>			
<u>PREAMBLES</u>			
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<u>Nature Of Material To Be Excavated</u>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"			
<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			
Carried to Collection			R
SECTION 3 : EXTERNAL WORKS (PROVISIONAL) Bill No.8 : Retaining Walls			

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator

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

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.8 : Retaining Walls

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

EXCAVATIONS, FILLING, ETC

1	Excavate in earth for retaining walls not exceeding 2000mm deep.	m3	23
2	Extra over excavations in earth to retaining walls for excavation in soft rock.	m3	2
3	Allow for risk of collapse to sides of retaining walls not exceeding 1500mm deep.	m2	65
4	Extra over all excavations for carting away from the site all surplus excavated material.	m3	23
5	Earth filling supplied G5 Material by the Contractor, compacted to 93% Mod AASHTO density.	m3	11
6	Selected granular fill compacted to 98% MOD AASHTO.	m3	87
7	Backfilling compacted behind wall.	m3	87

LOFFELSTEIN RETAINING WALL BLOCK

8	Loffelstein L300 blocks filled with and including well temped granular soil.	m2	292
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CONCRETE CAST AGAINST EXCAVATED SURFACES

Cement Concrete (10MPa) In

9	Blinding under bases.	m3	4
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Cement Concrete (25MPa) In

10	Footings.	m3	23
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REINFORCEMENT (CPAP Work Group No. 114 Unless Otherwise Stated)

Fabric Reinforcement To Concrete Work

11	High tensile steel mesh Ref. 193 to concrete surface beds, slabs, etc.	m2	76
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Carried to Collection

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

R

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.8 : Retaining Walls

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.8 : Retaining Walls

R

Item No	Quantity	Rate	Amount
<u>SECTION 3 - EXTERNAL WORKS</u>			
<u>BILL No. 10 - ENTRANCE CANOPY</u>			
<u>PREAMBLES</u>			
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<u>Nature Of Material To Be Excavated</u>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"			
<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			
		R	
Carried to Collection			
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.9 : Entrance Canopy, Etc			

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Remeasurement

Final remeasurement of quantities to be done after completion

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.9 : Entrance Canopy, Etc

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

<u>EARTHWORKS (CPAP Work Group No. 104 Unless Otherwise Stated)</u>					
1	Excavate in earth for surface trenches ad holes not exceeding 2000mm deep.	m3	13		
2	Extra over all excavations for carting away from the site all surplus excavated material.	m3	13		
3	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	33		
4	Earth filling supplied G5 Material by the Contractor, compacted to 93% Mod AASHTO density.	m3	8		
<u>CONCRETE CAST AGAINST EXCAVATED SURFACES (CPAP Work Group No. 110 Unless Otherwise Stated)</u>					
<u>Reinforced Cement Concrete (25MPa) In</u>					
5	Bases.	m3	8		
6	Columns.	m3	5		
<u>FORMWORK (CPAP Work Group No. 111 Unless Otherwise Stated)</u>					
<u>Rough Formwork To</u>					
7	Columns.	m2	36		
<u>REINFORCEMENT (CPAP Work Group No. 114 Unless Otherwise Stated)</u>					
<u>Mild Steel Bar Reinforcement To Structural Concrete Work</u>					
8	Diameter bars.	t	1.15		
<u>GALVANISED STEEL TRUSSES</u>					
<u>Welded Roof Trusses Of Angle Rafters, Tie Beams, Rails, Struts, Braces, Cleats, Etc And Flat Bearer, Gusset And Connection Plates, Bolted To Steel</u>					
9	139.7 x 4mm x 13.4kg/m.	t	2		
Carried to Collection				R	
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)					
Bill No.9 : Entrance Canopy, Etc					

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.9 : Entrance Canopy, Etc

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

ROOF COVERINGS, ETC. (CPAP Work Group No. 124 Unless Otherwise Stated)

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

Brownbuilt 406 Double-Interlocking Concealed-Fix Roof Sheeting, 0,58mm thick, Roll-Formed From ISQ 550 Grade Steel To SANS 3575 With Z275 Zinc Coating And Chromadek Factory Applied Colour Coating, "Charcoal" One Side And "Pebble Grey" Backing Coat, Carrying A Current Agreement South Africa Certificate. Laid To a Minimum Roof Pitch Of 3° In Single Continuous Lengths Without End Laps, To The Structural Engineer's Purlin Layout And Design Wind Load In Accordance With SANS 10160-3

1	Roof covering with pitch not exceeding 25 degrees.	m2	72
2	0.6mm Thick ridge capping 460mm girth.	m	12

SIGNAGE (CPAP Work Group No. 132 Unless Otherwise Stated)

3	1500 x 600mm High school name signage colour: Board white comprising 30mm shutterboard with 20 x 40mm meranti surround painted with one coat pink primer, one coat undercoat and 2 coats gloss enamel. (Refer to drawing number A1000)	Item	
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Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.9 : Entrance Canopy, Etc

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.9 : Entrance Canopy, Etc

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.9 : Entrance Canopy, Etc

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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.10 : Sports Field

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Remeasurement

Final remeasurement of quantities to be done after completion

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.10 : Sports Field

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

Excavations, Filling, Etc

1	Excavate in earth for surface trenches and holes not exceeding 2000mm deep.	m3	89
2	Extra over excavations in earth to trenches for excavation in soft rock.	m3	9
3	Extra over all excavations for carting away from the site all surplus excavated material.	m3	89
4	Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.	m2	198
5	G7 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 96% modified AASHTO density.	m3	50
6	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	254
7	Scarify, mix and consolidate top 150mm of subgrade to 90% modified AASHTO density.	m2	56

CONCRETE CAST AGAINST EXCAVATED SURFACES (CPAP Work Group No. 110 Unless Otherwise Stated)

Un-reinforced Cement Concrete (10MPa) In

8	Blinding.	m3	3
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Reinforced Cement Concrete (25MPa) In

9	Footings.	m3	17
10	Walls.	m3	20
11	Terrace seating.	m3	59

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.10 : Sports Field

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

<u>CONCRETE SUNDRIES (CPAP Work Group No. 110 Unless Otherwise Stated)</u>			
<u>Finishing Top Surfaces Of Concrete Smooth With A Steel float</u>			
1	Surface beds, slabs, etc.	m2	174
<u>FORMWORK (CPAP Work Group No. 111 Unless Otherwise Stated)</u>			
<u>Rough Formwork To</u>			
2	Walls.	m2	198
<u>Smooth Formwork To</u>			
3	Edges of terrace seating	m2	126
4	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	310
<u>REINFORCEMENT (CPAP Work Group No. 114 Unless Otherwise Stated)</u>			
<u>Fabric Reinforcement To Concrete Work</u>			
5	High tensile steel mesh Ref. 617 to concrete surface beds, slabs, etc.	m2	329
Carried to Collection			
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.10 : Sports Field			
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DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.10 : Sports Field

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.10 : Sports Field

Item No	Quantity	Rate	Amount
<u>SECTION 3 - EXTERNAL WORKS</u>			
<u>BILL No. 12 - COMBI COURTS</u>			
<u>PREAMBLES</u>			
For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preambles</u>			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section			
<u>Proprietary Products In Descriptions</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<u>Nature Of Material To Be Excavated</u>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"			
<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			
		R	
Carried to Collection			
SECTION 3 : EXTERNAL WORKS (PROVISIONAL)			
Bill No.11 : Netball Courts and Assembly Area			

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

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

Remeasurement

Final remeasurement of quantities to be done after completion

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.11 : Netball Courts and Assembly Area

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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

Excavations, Filling, Etc

1	Earth filling supplied G5 Material by the Contractor, compacted to 93% Mod AASHTO density.	m3	128
2	Scarify, mix and consolidate top 150mm of subgrade to 90% modified AASHTO density.	m2	1,282

CONCRETE CAST AGAINST EXCAVATED SURFACES (CPAP Work Group No. 110 Unless Otherwise Stated)

3	Unreinforced cement Concrete (25MPa).	m3	128
4	Finishing top surfaces of concrete smooth with a wood float	m2	1,282
5	3 x 35mm Saw-cut joints in top of concrete.	m	517
6	One layer 250 micron waterproof sheeting on slabs.	m2	1,282

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

7	Apply 2mm tack coat binder, 2mm Bituminous Slurry, 2mm Baramastic Slurry and 1mm modified rubber cement.	m2	1,282
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POSTS, ETC

8	Install Netball posts.	No	2
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Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.11 : Netball Courts and Assembly Area

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.11 : Netball Courts and Assembly Area

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.11 : Netball Courts and Assembly Area

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BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

Bill No.12 : Temporary Facilities

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

**REMOVAL OF TEMPORARY STRUCTURE TO NEW
SITE (CPAP Work Group No. 102 Unless Otherwise
Stated)**

**Dismantling And Loading Of Prefabricated
Weatherproof Structure And Water Tanks From
Arcadia Secondary School Ready For
Transportation (Transportation Elsewhere
Measured) Complete**

1	Dismantle Prefab classrooms block size 8114 x 7006mm wide (Classrooms).	No	27
2	Dismantle Prefab classrooms block size 35818 x 9229mm wide (Admin block).	No	1
3	Dismantle Prefab classrooms block size 13193 x 5397mm wide (Ablution block).	No	1
4	Dismantle Prefab classrooms block size 13309 x 5284mm wide (Ablution block).	No	1
5	Dismantle Prefab classrooms block size 14154 x 7177mm wide (Nutrition).	No	1

**Transportation Of Prefabricated Weatherproof
Structure And Water Tanks From Arcadia Senior
Secondary School As Per The Ranges Specified**

6	Temporary classrooms approximately 50m2 within 50km from the existing site.	No	31
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Carried to Collection

R

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.12 : Temporary Facilities

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

**RELOCATION OF EXISTING PREFAB
CLASSROOM BLOCKS TO A NEW SITE AFTER
COMPLETION OF THE CONSTRUCTION OF
NEW SCHOOL AT ARCADIA SENIOR
SECONDARY SCHOOL**

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

Site Clearance

1	Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site.	m2	2,314
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Excavations, Filling, Etc

2	Excavate in earth to open face over site to reduce levels.	m3	347
3	Extra over bulk excavations in earth for excavation in soft rock.	m3	35
4	Extra over all excavations for carting away from the site all surplus excavated material.	m3	347
5	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	2,314
6	G5 type filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density to platforms, etc.	m3	347
7	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	2,314

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.12 : Temporary Facilities

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

**INSTALLATION OF EXISTING TEMPORARY
STRUCTURES (CPAP Work Group No. 102 Unless
Otherwise Stated)**

1	Prefab classrooms block size 8114 x 7006mm wide (Classrooms).	No	27
2	Prefab classrooms block size 35818 x 9229mm wide (Admin block).	No	1
3	Prefab classrooms block size 13193 x 5397mm wide (Ablution block).	No	1
4	Prefab classrooms block size 13309 x 5284mm wide (Ablution block).	No	1
5	Prefab classrooms block size 14154 x 7177mm wide (Nutrition).	No	1

Carried to Collection

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)
Bill No.12 : Temporary Facilities

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.12 : Temporary Facilities

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Bill No.12 : Temporary Facilities

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

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SECTION 3 : EXTERNAL WORKS (PROVISIONAL)

Item No	Quantity	Rate	Amount
<u>SECTION 4 - WORK TO BE EXECUTED BY SMME'S</u> <u>BILL No. 1 - WORK TO BE EXECUTED BY SMME'S</u> <u>PREAMBLES</u> For Preambles refer to"Department of Public Works: Specification Of Materials And Methods To Be Used - PW371" <u>SUPPLEMENTARY PREAMBLES</u> The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section The tenderer is to refer to the SMME's specification attached to the tender document The contractor shall ensure full achievement of the deliverables through the construction period of this construction contract. <u>The following budgetary allowances are for work to be executed by the SMME's and are to be used at the discretion of the client and deducted in whole or in part if not required. Work shall be measured and valued in accordance with the "Conditions of Contract"</u> <u>The Contractor's profit and attendance is included under item C16 of the preliminaries</u> <u>MENTOR, SUPERVISION AND MANAGEMENT OF THE SMME SUPPLIERS</u>			
Carried to Collection			R
SECTION 4 : WORK TO BE EXECUTED BY SMME'S			
Bill No.1 : Work to be Executed by SMME's			

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SMME MENTOR

- 1 Provide the amount of R 1 200 000.00 for mentor, supervision and management of the SMME suppliers to be paid to an approved provider. (R50 000.00 per month)

Item 1,200,000.00

MASONRY

- 2 Provide the sum of R 8 745 702.00 for **MASONRY** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 8,745,702.00

CEILINGS

- 3 Provide the sum of R 2 681 480.00 for **CEILINGS** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 2,681,480.00

FLOOR COVERINGS

- 4 Provide the sum of R 3 393 645.00 for **FLOOR COVERINGS** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 3,393,645.00

FENCING

- 5 Provide the sum of R 538 042.00 for **FENCING** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 538,042.00

Carried to Collection

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SECTION 4 : WORK TO BE EXECUTED BY SMME'S
Bill No.1 : Work to be Executed by SMME's

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
SCMU Nu: SCMU5-26/27-0051
BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

PLASTERING

- 1 Provide the sum of R 2 899 030.00 for **PLASTERING** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 2,899,030.00

PAINTWORK

- 2 Provide the sum of R 1 903 460.00 for **PAINTWORK** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 1,903,460.00

ROOF COVERINGS

- 3 Provide the sum of R 4 641 230.00 for **ROOF COVERINGS** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 4,641,230.00

TILING

- 4 Provide the sum of R 246 430.00 for **TILING** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 246,430.00

Carried to Collection

R

SECTION 4 : WORK TO BE EXECUTED BY SMME'S
Bill No.1 : Work to be Executed by SMME's

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
EDUCATIONAL FACILITY: P9008634, EMIS Nu: 200100037
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PAVING

- 1 Provide the sum of R 1 609 280.00 for **PAVING** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 1,609,280.00

SPORT FIELD (LANDSCAPING AND POSTS)

- 2 Provide the sum of R 1 013 510.00 for **SPORT FIELD (LANDSCAPING AND POSTS)** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 1,013,510.00

LANDSCAPING

- 3 Provide the sum of R 394 900.00 for **LANDSCAPING** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 394,900.00

JOINERY FITTING

- 4 Provide the sum of R 2 234 025.00 for **JOINERY FITTING** installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 2,234,025.00

Carried to Collection

R

SECTION 4 : WORK TO BE EXECUTED BY SMME'S
Bill No.1 : Work to be Executed by SMME's

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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SECTION 4 : WORK TO BE EXECUTED BY SMME'S

Bill No.1 : Work to be Executed by SMME's

COLLECTION

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Amount

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R

SECTION 4 : WORK TO BE EXECUTED BY SMME'S
Bill No.1 : Work to be Executed by SMME's

Item No	Quantity	Rate	Amount
<u>SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT CONTRACTS</u> <u>BILL No. 1 - BUDGETARY ALLOWANCES</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>General</u> The Contractor is referred to the Social and Economic Deliverables Specification Data included in this contract document for interpretation purposes. The Contractor shall ensure full achievement of the deliverables through the construction period of this contract. <u>BUDGETARY ALLOWANCES</u> Under this heading are for work to be executed by the Contractor and are to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. The work shall be measured and valued in accordance with the "Conditions of Contract". <u>The Following Budgetary Amounts Are For Work To Be Carried Out By The Main Contractor, Nominated, Selected or Direct Contractors:</u> The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence. <u>COMMUNITY LIAISON OFFICER (CLO)</u>			
1		Provide the amount of R168 000.00 to be paid to the CLO for the duration of the contract. (R7 000.00 per month)	168,000.00
		Carried to Collection	R
SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT Bill No.1 : Budgetary Allowances			

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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PLACEMENT OF STUDENT GRADUATES AND STUDENTS

- 1 Provide the amount of R456,000.00 for the placement of 1 x Student and 1 x Graduate (Architecture, Quantity Surveying and Civil/Structural Engineering) to be employed by the main contractor for the duration of the contract. (R7 000.00 per month for Student and R12 000.00 per month for Graduates)

Item 456,000.00

PLACEMENT OF APTCOD STUDENT GRADUATES

- 2 Provide the amount of R360 000.00 for the placement of one (3) in total, APTCOD Students in built environment to be employed by the main contractor for the duration of the contract. (R5 000.00 per month)

Item 360,000.00

PLACEMENT OF PROJECT STEERING COMMITTEE

- 3 Provide the amount of R60 000.00 for the placement of 5 x Project steering committee members for the duration of the contract. (R500.00 per month)

Item 60,000.00

TECHNICAL TRAINING AND LEARNER STIPENDS

- 4 Provide the amount of R450 000.00 for Technical training with and including Learner stipend.

Item 450,000.00

BLINDS

- 5 Provide the sum of R 200 000.00 for Blinds installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 200,000.00

Carried to Collection

R

SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT
Bill No.1 : Budgetary Allowances

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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FLAGPOLES

- 1 Provide the sum of R 100 000.00 for Flagpoles installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 100,000.00

STEEL BENCHES

- 2 Provide the sum of R 195 000.00 for Steel benches installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 195,000.00

**IRONMONGERY TO DOORS, EXTERNAL
SIGNAGE TO HALL AND ADMIN**

- 3 Provide the sum of R 500 000.00 for Ironmongery to doors installed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. To be priced from a measured bills of quantities issued to Principal Contractor by Professional Quantity Surveyor.

Item 500,000.00

Carried to Collection

R

SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT
Bill No.1 : Budgetary Allowances

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT CONTRACTS

Bill No.1 : Budgetary Allowances

COLLECTION

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Amount

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SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT
Bill No.1 : Budgetary Allowances

R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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Item No		Quantity	Rate	Amount
	<u>SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT CONTRACTS</u>			
	<u>BILL No. 2 - DIRECT CONTRACTS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	<u>DIRECT CONTRACT ALLOWANCES</u>			
	Under this heading are for work to be executed by the Direct Contractor and are to be used at the discretion of the Principal Agent and deducted in whole			
	<u>The Following Amounts Are For Work To Be Carried Out By Direct Contractors</u>			
	The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence			
	<u>The Following Monetary Provisions Are To Be Omitted From The Contract Sum And Used As Directed Below</u>			
	<u>LOOSE FURNITURE</u>			
	<u>DIRECT CONTRACT APPOINTMENT BY CLIENT</u>			
1	Provide the sum of R 2 748 004.88, a Direct appointment (Client supply) from the Client for the supply and delivery to site of Furniture and Equipment to Arcadia Secondary School.	Item		2,748,004.88
	Carried Forward to Summary of Section No. 5		R	
	SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT Bill No.2 : Direct Contracts			

BILL OF QUANTITIES - ARCADIA SENIOR SECONDARY SCHOOL

SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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Section No	FINAL SUMMARY	Page No	Amount
1	SECTION 1 : PRELIMINARIES & GENERAL	38	
2	SECTION 2 : BUILDING WORKS	103	
3	SECTION 3 : EXTERNAL WORKS (PROVISIONAL)	167	
4	SECTION 4 : WORK TO BE EXECUTED BY SMME'S	172	
5	SECTION 5 : BUDGETARY ALLOWANCES AND DIRECT CONTRACTS	178	
	TOTAL OF WORKS :		R
	<u>PART B - ELECTRICAL INSTALLATION</u>		
	Brought forward total for Electrical Installation excluding VAT attached in this tender document.	Item	
	<u>PART C - MECHANICAL INSTALLATION</u>		
	Brought forward total for Mechanical Installation excluding VAT attached in this tender document.	Item	
	TOTAL BUILDING WORKS INCLUDING PART B & C:		R
	<u>MONETARY PROVISIONS</u>		
	<u>The Following Monetary Provisions Have Been Made In The Contract And Must Be Omitted From The Contract Sum At The Start Of The Contract And Used As Directed Below</u>		
	<u>PLEASE NOTE :- These Are Monetary Provisions Only And The Use, Value And Payment Thereof Are Subject To Adjustment Based On Actual Costs Through Contractually Approved Variation Orders And Escalation Costs Calculated In Terms Of The Prescribed Contractual Escalation Calculations Directives Respectively</u>		
			R

DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF A NEW
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Section No	FINAL SUMMARY	Page No	Amount
	<u>MONETARY PROVISION FOR CONTINGENCIES</u>		R
	Provide the Sum of R3 120 000.00 (Three Million and Twenty Thousand Rand Seven Cents) for Contingencies, to be adjusted, used and paid as instructed and approved by the Client in terms of clauses 17, 25 and 26 of the JBCC Principal Building Agreement (refer JBCC).	Item	3,120,000.00
	<u>PROVISION FOR STATUTORY INCREASES</u>		
	Provide the amount of R4 150 000.00 (Four Million One Hundred and Fifty Thousand Rand) for statutory increase (CPAP), to be adjusted, used and paid as instructed by the Client for and based on contractually calculated escalation per item 25.3.4 and 26.9.5 of the contract data of the Preliminaries Bill and in terms of clauses 17, 25 and 26 of the JBCC Principal Building Agreement (refer JBCC).	Item	4,150,000.00
	<u>CIDB BUILD PROGRAMME</u>		
	Provide the amount of R250 000.00 (Two Hundred and Fifty Thousand Rand) for CIDB BUILD fund works.	Item	250,000.00
	TOTAL BUILDING WORKS INCLUDING ESCALATION & CONTINGENCIES		R
	VAT at the rate of 15%		R
	TOTAL CARRIED TO FORM OF OFFER & ACCEPTANCE		R