

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u>			
	<u>BILL NO. 1</u>			
	<u>PRELIMINARIES NOTES</u>			
	i) The agreement is to be the JBCC Principal Building Agreement, Edition 6.2 - May 2018, and other contract documents that together form the contract between the employer and contractor			
	ii) The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described			
	iii) The contractor is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause			
	iv) The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only			
	v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
	vi) Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents			
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

	Brought Forward <u>PREAMBLES FOR TRADES</u> i) The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors ("ASAQS") 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. Should the ASAQS retract the General Preambles for Trades 2017 then the Model Preambles for Trades 2008 edition as published by the ASAQS shall apply. ii) 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 iii) 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 <u>STRUCTURE OF THIS PRELIMINARIES BILL</u> Section A A recital of the headings of the individual clauses in the JBCC Principal Building Agreement (PBA), JBCC Modifications to the standard clauses should be avoided. Amendments, modifications, corrections or supplements to the aforementioned agreements may be recorded in the space provided in the relevant JBCC Contract Data or against the relevant clause numbers in this section Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
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	Brought Forward		R	
	Section B A recital of the headings of the individual clauses in the JBCC General Preliminaries. Changes to the standard clauses should be avoided. Any modifications should be recorded against the relevant clause numbers in this section Section C Any special clauses to meet the particular circumstances of a specific project are embodied in this section <u>PRICING OF THIS PRELIMINARIES BILL</u> Should the contractor select Option A in the contract data for the adjustment of preliminaries, then 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) If the amounts are not separated as such before the agreement is signed, then the total preliminaries amount (as per this bill) shall for adjustment purposes be split as follows: T = 60%, F = 25% and V = 15% <u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u> <u>Interpretation (A1 - A7)</u> 1 Clause 1.0 - Definitions and interpretation The definition of DIRECT CONTRACTOR deleted in its entirety and replaced with the following: "DIRECT CONTRACTOR: An entity appointed under a separate agreement by the employer, or by any customer of the employer, to do work on			
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

	Brought Forward site prior to practical completion [CD]" The definition of PROGRAMME deleted in its entirety and replaced with the following: "PROGRAMME: A diagrammatic representation of the planned execution of the works (units of work, activities and milestone dates) indicating the dates for commencement and completion as well as the critical path, prepared by the contractor and supplied (in soft/electronic copy) to the principal agent for acceptance and inclusion to the agreement prior to signature thereof, which programme will thereafter be referred to as the baseline programme. The programme shall be maintained by the contractor at all times during the construction period. The programme must be fully linked with neither open start nor open end date activities, must indicate all working days (and all non-working days) and must accurately record the actual progress of and/or any delays to the date(s) of practical completion. Any changes to the baseline programme, which include but are not limited to resequencing of the works, are to be agreed to in writing by the principal agent prior to implementation thereof failing which the baseline programme will remain un-amended." The work of nominated and selected subcontractors must be incorporated by mutual agreement on appointment of such into the agreement and adjusted by mutual agreement as the work progresses The following clauses are added: "1.2.6 Pricing of bills of quantities 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, Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

	Brought Forward 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. Items left unpriced, or priced zero, will be deemed to be covered in prices against other items throughout these bills of quantities inclusive of this preliminaries bill and no claim for any extras arising out of the contractor's omission to price any item will be entertained 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." "1.2.7 Abbreviated descriptions 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." F:..... V:..... T:..... Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
			R	

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
5	Clause 5.0 - Documents The following words are included at the end of clause 5.6: "All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically." The following new clause is added: "5.7 Value Added Tax ("VAT") Provision is made in the summary page of these bills of quantities for the inclusion of VAT" F:..... V:..... T:.....	Item		
6	Clause 6.0 - Employer's agents The following words are included at the end of clause 6.2: "The authority of the principal agent to issue contract instructions [17.1] and perform duties for specific aspects of the works are by agreement delegated to agents as follows [6.2]. This does not preclude the principal agent from issuing such contract instructions or from responsibility from the applicable services should the employer not employ the agent(s) as listed below:" The following clauses are added: "6.2.1. <u>Health and safety consultant</u> The health and safety consultant is responsible for all aspects of health and safety of the works. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the works. He shall:			
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

	Brought Forward - Act as the employer's agent in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended; - Prepare and update the health and safety specification for the works; - Agree with the contractor the health and safety plan for the works; - Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations; - Issue contract instructions in respect of any health & safety related matter; and - Stop any activity and/or the execution of the works where the agreed specification or plan is not adhered to and/or if there is reason to believe that any person might be harmed, injured, etc. should the execution of the works continue." "6.2.2. <u>Architect</u> The architect is responsible for the architectural design, functional design and quality inspection of the works. He may request the principal agent to issue contract instructions [17.1] on behalf of and perform any duty of the principal agent pertaining to relating to the following: - Rectification of discrepancies, errors in description or quantity or omissions of items in this agreement other than in the JBCC Principal Building Agreement [17.1.1]; - Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change the scope of the works [17.1.2]; - The site [13.0, 17.1.3] - Compliance with the law, regulations and by - laws [2.1, 17.1.4]; Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

	Brought Forward - Provision and testing of samples of materials and goods and/or finishes or assemblies of elements of the works [17.1.5]; - Opening up of work for inspection, removal or re-execution [23.2.4, 26.4.2, 17.1.6]; - Removal or re-execution of work [17.1.7] - Removal or substitution of any materials and goods [17.1.8]; - Protection of the works [17.1.9] - Making good physical loss and repairing damage to the works [23.2.2, 17.1.10]; - Rectification of defects [21.2, 17.1.11] - 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 [17.1.12]; - Expenditure of budgetary allowances, prime cost amounts and provisional sums [17.1.13]; - Appointment of a subcontractor [14.0, 15.0, 17.1.14]; - Work by direct contractors [16.0, 17.1.16]; and - On suspension or termination, protection of the works, removal of construction equipment and surplus materials and goods [28, 29, 17.1.20]" "6.2.3. <u>Quantity Surveyor</u> The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
			R	

	Brought Forward and cost control functions of the works [6.2]. He may not issue any contract instructions [17.1] on behalf of the principal agent." "6.2.4. <u>Civil & Structural-, Mechanical- and/or Electrical Engineers</u> The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the works The mechanical engineer is responsible for all aspects of mechanical- and fire engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the mechanical and fire services installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions. The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the electrical services installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions. The above-mentioned Engineers may issue contract instructions [17.1] on behalf of and perform any duty [6.2] of the principal agent pertaining to relating to the following: - Rectification of discrepancies, errors in description or quantity or omissions of items in this agreement other than in the JBCC Works Agreement [17.1.1]; - Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change the scope of the works [17.1.2]; - The site [13.0, 17.1.3]; - Compliance with the law, regulations and by Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward laws [2.1, 17.1.4]; - Provision and testing of samples of materials and goods and/or finishes or assemblies of elements of the works [17.1.5]; - Opening up of work for inspection, removal or re-execution [17.1.6]; - Removal or re-execution of work [17.1.7]; - Removal or substitution of any materials and goods [17.1.8]; - Protection of the works [17.1.9]; - Making good physical loss and repairing damage to the works [23.2.2, 17.1.10]; - Rectification of defects [21.1, 17.1.11]; - 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 [17.1.12]; - Expenditure of budgetary allowances, prime cost amounts and provisional sums [17.1.13]; - Appointment of a subcontractor [14.0,15.0, 17.1.14]; - Work by direct contractors [16.0, 17.1.16]; and - On suspension or termination, protection of the works, removal of construction equipment and surplus materials and goods [28, 29, 17.1.20]" F:..... V:..... T:..... Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)	Item	R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
7	Clause 7.0 - Design responsibility The following items shall be priced a design, supply and install by the contractor. The contractor will be responsible for the design based on drawings issued by the design team. The design must be fully compliant to relevant standards and guarantees issued where required. Any additional design fees for external professionals required to achieve below requirements needs to be allowed for and priced in this item In addition the following will be required: 1. Complete design indemnity letters to indemnify the design team for these items. 2. Provide shop drawings for approval by the Architect. 3. Provide samples to be approved by the deign team prior to manufacturing. 4. Sub-contractor to allow for / calculate tolerances for expansion and contraction of aluminium. 5. Sub-contractor to provide the Architect with written guarantees for workmanship provided. Relevant items/trades: a. Aluminium shopfronts, windows and doors b. Glass balustrades c. Lateral support d. Bulk excavation e. Post tensioned slabs f. Glass roofs F:..... V:..... T:..... Item				
	Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
	<u>Insurances and securities (A8-A11)</u>			
8	Clause 8.0 Works risk F:..... V:..... T:.....	Item		
9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item		
10	Clause 10.0 - Insurances F:..... V:..... T:.....	Item		
11	Clause 11.0 Securities The following new clause is added: "11.11 The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times F:..... V:..... T:.....	Item		
Carried Forward			R	
Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward <u>Execution (A12 - A17)</u> 12 Clause 12.0 - Obligations of the parties Clause 12.2.19 is amended by replacing the words "Achievement of practical completion ..." with the word "Prior to and in order to achieve practical completion..." and adding the following sub-clauses: 12.2.19.1 The contractor shall make provision for one (1) electronic copy and one (1) hard copy of Operating and Maintenance Manuals in accordance with the requirements of the principal agent and employer 12.2.19.2 The contractor shall make provision for a detailed set of as fitted layout drawings of the entire installation and for the provision of one (1) electronic copy and one (1) hard copy thereof; 12.2.19.3 The contractor shall provide laminated drawings for all plant rooms; and 12.2.19.4 The contractor shall comply with and achieve the criteria for achievement of practical completion, which includes but are not limited to the milestone testing and operational readiness as detailed in clauses 19.8 and 19.9 Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)	Item	R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
13	"12.4 Notice Board The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]" F:..... V:..... T:.....	Item		
14	Clause 13.0 - Setting out F:..... V:..... T:.....	Item		
15	Clause 14.0 - Nominated subcontractors The following clause is added: "14.9 General attendance for pricing by the contractor shall be in accordance with the applicable n/s subcontract agreement. Notwithstanding this or any other provision, general attendance shall be deemed to include for the contractor to provide free of charge to any subcontractor, all scaffolding as may be reasonably be required for the execution of the subcontract works" F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
16	Clause 15.0 - Selected subcontractors The following clause is added: "15.9 General attendance for pricing by the contractor shall be in accordance with the applicable n/s subcontract agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any subcontractor, all scaffolding as may be reasonably be required for the execution of the subcontract works" F:..... V:..... T:.....	Item		
17	Clause 16.0 Direct contractors The following clauses are added: "16.4 In respect of direct contractors the contractor shall: 16.4.1 Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials; F:..... V:..... T:.....	Item		
Carried Forward			R	
Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
18	Clause 17.0 Contract instructions Clause 17.1.8 is amended by adding the following words to the end thereof "and/or workmanship which do not conform to a specification or drawing or reasonable standard" F:..... V:..... T:..... <u>Completion (A18 - A24)</u>	Item		
19	Clause 18.0 - Interim completion Clause 19.0 Practical completion Refer to "Requirements for Practical Completion" document included under Annexure 5.3.4 for amendments and obligations regarding the following: 1. State of Completion required for practical completion 2. Standard of Work 3. Procedure and Period required for inspection F:..... V:..... T:.....	Item		
20	Clause 20.0 - Completion in section F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
21	Clause 21.0 Defects liability period and final completion F:..... V:..... T:.....	Item		
22	Clause 22.0 Latent defects liability period F:..... V:..... T:.....	Item		
23	Clause 23.0 - Revision of the date for practical completion F:..... V:..... T:.....	Item		
24	Clause 24.0 Penalty for late or non-completion F:..... V:..... T:..... <u>Payment (A25 - A27)</u>	Item		
25	Clause 25.0 - Payment	Item		
26	Clause 26.0 - Adjustment of the contract value and final account F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
27	Clause 27.0 - Recovery of expense and/or loss F:..... V:..... T:..... <u>Suspension and termination (A28 - A29)</u>	Item		
28	Clause 28.0 - Suspension by the contractor F:..... V:..... T:.....	Item		
29	Clause 29.0 - Termination Clause 29.20.2 is deleted in its entirety and replaced with the following: "29.20.2 Progress of the works has ceased, or has been stopped or suspended, for a continuous period of one hundred and twenty (120) calendar days due to circumstances beyond the control of either party" F:..... V:..... T:..... <u>Dispute resolution (A30)</u>	Item		
30	Clause 30.0 - Dispute resolution F:..... V:..... T:..... <u>Agreement</u>	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward <u>Contract Data</u> 31 Tenderer's selections Before submission of his tender the contractor is to complete the tenderer's selections in the contract data, alternatively if the same is completed by the principal agent then the contractor's signature of the agreement is deemed as acceptance of the content thereof, which acceptance thus includes the tenderer's selections in the contract data F:..... V:..... T:..... <u>SECTION B: GENERAL PRELIMINARIES</u> <u>Definitions and Interpretation (B1)</u> 32 Clause 1.1 - Definitions F:..... V:..... T:..... 33 Clause 1.2 - Interpretation F:..... V:..... T:..... Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)	Item Item Item	R R	
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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward <u>Documents (B2)</u> 34 Clause 2.1 - Checking of documents The following is added to clause 2.1 "Interpretation of drawings, specifications and bills of quantities Should any part or parts of the drawings, specifications or bills of quantities not be clearly intelligible to the contractor, or the materials and goods or articles to be used in the execution of the works be considered insufficiently described or the manner in which the works are to be carried out not be clear, the contractor must obtain from the principal agent the necessary information to clarify such drawings, specifications, bills of quantities or instructions which request shall be in writing. All work, equipment, materials and/or goods required to execute the project solution in accordance with the construction programme, contract drawings and/or contract documents all in accordance with the principal agent's quality requirements, are deemed included in the rates and prices provided in the priced document, any errors and/or omissions in this respect shall be brought to the attention of the principal agent for clarification, failing which the provision of such items shall be deemed included in the contract sum Rates provided by the contractor in the priced document shall include for fixing, hangers, fittings, transformations, sealant and all other items required to deliver a functional system in accordance with the design intent and specifications." F:..... V:..... T:..... Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)	Item	R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
35	Clause 2.2 - Provisional bills of quantities The following is added to clause 2.2 "The quantities are provisional and are thus subject to remeasurement." F:..... V:..... T:.....	Item		
36	Clause 2.3 - Availability of construction information F:..... V:..... T:.....	Item		
37	Clause 2.4 - Ordering of materials and goods F:..... V:..... T:..... <u>Previous work and adjoining properties (B3)</u>	Item		
38	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item		
39	Clause 3.2 - Previous work defects F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
40	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:..... <u>The site (B4)</u>	Item		
41	Clause 4.1 - Handover of site in stages F:..... V:..... T:.....	Item		
42	Clause 4.2 - Enclosure of the works F:..... V:..... T:.....	Item		
43	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:.....	Item		
44	Clause 4.4 - Encroachments F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

	Brought Forward			R	
47	Management of contract (B5) Clause 5.1 - Management of the works The following is added to clause 5.1 "Mode of procedure and coordination The contractor shall follow a sequence of work which will enable him to complete the works in accordance with the provisions of the agreement The contractor shall allow opposite this clause whatever cost and charges he may consider necessary to meet the stipulated date(s) and for any out-of-sequence working, inconvenience working in shifts, overtime, etc. and all additional costs whatsoever arising there from. Should it appear, in the principal agent' opinion, that works in any area is not being executed in accordance with programme requirements, the contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the works back to a programme to the satisfaction of the principal agent It is specifically noted that notwithstanding the above the contractor is and remains responsible for the programme and to bring the works to practical completion and final completion. The contractor shall be solely responsible for the coordination of all subcontractor works into the general programme of works. The contractor shall be required to convene meetings with subcontractors and suppliers as and when required for this purpose and must keep under constant review his own and all sub-contract labour force and supply of materials and goods or equipment in order to adhere to the programme. F:..... V:..... T:.....	Item			
	Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
48	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
49	Clause 5.3 - Technical meetings F:..... V:..... T:..... <u>Samples, shop drawings and manufacturer's instructions (B6)</u>	Item		
50	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item		
51	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
52	Clause 6.3 - Shop drawings The following is added to clause 6.3: "The contractor shall make provision for a detailed set of shop drawings for approval by the principal agent of the works prior to the installation of any plant, equipment and related items on site." F:..... V:..... T:.....	Item		
53	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:..... <u>Deposits and fees (B7)</u>	Item		
54	Clause 7.1 - Deposits and fees F:..... V:..... T:..... <u>Temporary services (B8)</u>	Item		
55	Clause 8.1 - Water F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
56	Clause 8.2 - Electricity F:..... V:..... T:.....	Item		
57	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item		
58	Clause 8.4 - Communication facilities F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B9)</u>			
59	Clause 9.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item		
	<u>Attendance on subcontractors (B10)</u>			
60	Clause 10.1 - General attendance F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
61	Clause 10.2 - Special attendance F:..... V:..... T:..... <u>General (B11)</u>	Item		
62	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item		
63	Clause 11.2 - Protection/isolation of existing works and works occupied in sections F:..... V:..... T:.....	Item		
64	Clause 11.3 - Security of the works F:..... V:..... T:.....	Item		
65	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
66	Clause 11.5 - Disturbance The following is added to clause 11.5: "The works are 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 employer , public, others and/or to any 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 F:..... V:..... T:.....	Item		
67	Clause 11.6 - Environmental disturbance The following is added to clause 11.6: "Controlling all forms of pollution" The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the works and/or site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc. The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works" F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
68	Clause 11.7 Works cleaning and clearing The following is added to clause 11.7: "The contractor shall provide all necessary dust sheets, covers, ect., and shall exercise all necessary care to prevent marking the surfaces of joinery, walls, floors, ceilings, glass, aluminium, electrical fittings, etc., and shall keep all parts of the works perfectly clean and free at all times from spotting, accumulation of rubbish, debris or dirt arising from painting operations. Any surface disfigured or otherwise damaged shall be completely renovated or replaced as necessary, to the principal agent's approval, by the contractor at his own expense. The premises shall be left clean and fit for occupation on completion of the works." F:..... V:..... T:.....	Item		
69	Clause 11.8 - Vermin F:..... V:..... T:.....	Item		
70	Clause 11.9 - Overhand work F:..... V:..... T:.....	Item		
71	Clause 11.10 - Tenant installations F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
72	Clause 11.11 - Advertising F:..... V:..... T:..... <u>SECTION C: SPECIFIC PRELIMINARIES</u>	Item		
73	Contractor to be responsible The contractor acknowledges that the principal objective of his appointment is his expert knowledge in the execution of the scope of works contemplated by this agreement. The contractor shall therefore be solely responsible for all aspects of the construction of the works including but not limited to the management, resourcing, programming, co-ordination, etc. all as required for the type of project described within the time limits and quality standards specified. F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
74	Warranties for materials and goods, equipment and workmanship Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer , from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on practical completion of the works The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects or latent defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so. F:..... V:..... T:.....	Item			
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
75	Overtime Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor, unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer The contractor is referred to the Mangaung Municipality by-laws, and specifically the following clauses: (a) No person shall during the course of any building, demolition or excavation work use any machine, machinery, engine, apparatus, tool or contrivance, which in the opinion of the local authority may unreasonably disturb or interfere with the amenity of the neighbourhood: (i) on a public holiday or Sunday (ii) before 06:00 or after 17:00 on any Saturday; and (iii) before 06:00 or after 18:00 on any day F:..... V:..... T:.....	Item		
76	Cooperation of the contractor for cost management It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will implement all reasonable cost management procedures to ensure that the contract value does not exceed the contract sum F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward 77 Overloading 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, for example, 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. F:..... V:..... T:..... 78 Confidentiality 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. No information regarding this project shall be published or disclosed without the prior written consent of the employer. The terms and conditions of the employer's non-disclosure agreements, signed by the contractor, are incorporated into the agreement. F:..... V:..... T:..... Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R Item Item R	
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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
79	Media releases 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 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. F:..... V:..... T:.....	Item		
80	Copyright The ownership of the copyright in and to: all drawings, specifications, models and documents of any nature delivered to the contractor or produced by or on behalf of the contractor in connection with the works; and, the artistic character and/or artistic design of the works, shall remain vested in and/or is hereby assigned to the employer by the contractor. F:..... V:..... T:.....	Item		
81	Forward Cover Forward cover must be taken out by the contractor on all imported items that are subject to currency fluctuation. F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

82	Brought Forward Free Issue The contractor shall provide the necessary storage, rigging, placement, installation, testing, etc. of the free issue equipment and/or materials upon delivery on site save for free issue equipment and/or materials relating to installation works to be done by a subcontractor subject to such storage, rigging, placement, installation, testing, etc. being expressly stated as the subcontractor's responsibility in the subcontractor's agreement. The contractor shall give notice forthwith to the principal agent and/or the employer where items of free issue have been received damaged prior to storage or, where on unpacking, are found not to be in good order before installing such items. F:..... V:..... T:.....	Item	R	
	83 Rigging and Crainage The contractor shall make provision for the lifting and rigging of all plant and/or equipment required for the execution of the works. Any and all free issue equipment and/or materials relating to works for execution by a subcontractor are the responsibility of the subcontractor, as noted above and thus excluded from this item. F:..... V:..... T:.....			
	Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
84	Scaffolding The contractor shall make provision for scaffolding required for the execution of the works, which includes the works by subcontractors and direct contractors F:..... V:..... T:.....	Item		
85	Unauthorised person/workmen on premises The contractor shall provide personalised identification ("ID") cards to each person present on the site. ID cards must include photo, name and ID number. No person will be permitted to enter the premises without an ID card. The contractor shall at all times strictly exclude all unauthorised persons from the works and the site and shall set up notice boards to that effect. F:..... V:..... T:.....	Item		
86	Training of employer's staff The contractor shall arrange, make provision for and manage the training of the employer's operational staff on the operation of the complete installation to be done under this agreement. F:..... V:..... T:.....	Item		
Carried Forward			R	
Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
87	Propping of floors below 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 F:..... V:..... T:.....	Item		
88	Testing of roof waterproofing for water tightness Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the water tightness of the waterproofing and before any further construction works are carried out F:..... V:..... T:.....	Item		
89	Sub-contractor list The contractor shall provide the principal agent with a list of all sub contractors enlisted on the project prior to appointment, for comment and discussion to performance and work quality experienced on previous projects On request of the principal agent, any such contractors will be withdrawn based on mutual understanding. F:..... V:..... T:.....	Item		
	Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
90	Main contractor management The contractor shall table a detailed CV of his management staff, ie. the foreman and contracts manager with a CV of each prior appointment, for comment and discussion to performance and work quality experienced on previous projects. F:..... V:..... T:.....	Item		
91	Quality control The contractor shall submit a detailed format for a quality control check list prior to appointment. F:..... V:..... T:.....	Item		
92	Local labour empowerment requirement The tenderer's attention is drawn to the fact that there is no specific Local Labour employment requirements from the client, notwithstanding this, the tenderer is to manage his workforce to not be stopped by local communities during works execution. The tenderer is to allow for a Community Liaison Officer (CLO), whom may be required to engage with local labour, etc., in order to avoid work stoppages, etc. F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

93	Brought Forward Community Liaison Officer The Contractor shall employ one Community Liaison Officer (CLO), nominated by the community for full duration of the contract. The duties of the CLO and the conditions of employment shall be in accordance with Annexure B: Agreement of Temporary Employment as Community Liaison Officer attached to these Bills of Quantities. Note: The CLO's rate of remuneration shall be R286 per working day <u>DBSA HEALTH AND SAFETY REQUIREMENTS</u> <u>PROVISIONAL</u> NOTE: For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles <u>OCCUPATIONAL HEALTH AND SAFETY ACT</u> Occupational Health and Safety Allowance to be made under this clause for compliance with all requirements of the occupational health and safety act and regulations. Health & Safety (clause C15) The Contractor shall allow for Health and Safety according to the Occupational Health and Safety Act, 1993, Construction Regulations 2014 as per Government Notice. Contractor to include all OHS requirements such as PPE, safety file, training, medicals, signage and a full-time health and safety officer.	Item	R	
	Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

	Brought Forward		R	
	<u>Occupational Health and Safety Act</u> <u>The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities/ lump sum document The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory.</u> <u>In the event of partial or total non-compliance, the Employer, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.</u>			
94	Provision of protective personal equipment (PPE) Provision of reflective vests Provision of signage Provision of training Provision of medical certificates, medical surveillance including initial (baseline) medical examinations, and exit examinations F: V: T:	Item		
95	Provision of hard hats F: V: T:	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
96	Provision of protective footwear F: V: T:	Item		
97	Provision of ear plugs F: V: T:	Item		
98	Provision of dust masks F: V: T:	Item		
99	Provision of gloves F: V: T:	Item		
100	Provision of high visibility overalls to SARTSM Chapter 13 Level 3 F: V: T:	Item		
101	Provision of SANS approved ear defenders F: V: T:	Item		
102	Provision of full time construction health and safety officer (Pr. CHSO SACPCMP Registered) F: V: T:	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

	Brought Forward <u>HIV/AIDS AWARENESS</u> <u>It is required of the contractor to thoroughly study the HIV/AIDS specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items o extras to the contract in this regard shall be entertained.</u> The contractor must take note that compliance with the HIV/AIDS specification is compulsory. In the event of partial or total non-compliance, the Employer, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment. 103 AWARENESS CAMPAIGN Selection, appointment, briefing and making available of an Awareness Campaign including provision of all relevant services, all in accordance with the HIV//AIDS specification F: V: T: Carried Forward Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
		Item	R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

	Brought Forward		R	
104	AWARENESS WORKSHOPS Selection and appointment of a competent Service Provider approved by the Employer, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS specification F: V: T:	Item		
105	POSTERS, BOOKLETS, VIDEOS, ETC. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc., for the duration of the construction period, all in accordance with the HIV/AIDS specification F: V: T:	Item		
106	ACCESS TO CONDOMS Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS specification F: V: T:	Item		
107	MONITORING Monitoring HIV/AIDS awareness of workers, providing the Employer with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS specification F: V: T:	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
	<u>SUMMARY OF CATAGORIES</u>			
108	Total Preliminaries Unless the parties agree otherwise prior to signature of this agreement, the total preliminaries amount shall for adjustment purposes be dealt with in accordance with option A of the contract data and split as follows: Time Related = 75%, Fixed = 10% and Value Related = 15%. In such instance, despite any provisions to the contrary, option A shall apply for adjustment of preliminaries. Category: Fixed R..... Category: Value R..... Category: Time R.....	Item		
	Carried to Final Summary		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount	
	<u>BILL NO. 1</u> <u>DEMOLITIONS, ETC.</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Demolitions and work on site:</u> All demolitions and works on site must be carried out carefully and in the safest possible manner and the Contractor is to make a thorough examination and take all necessary precautions before proceeding with the work. The utmost care is to be observed to avoid any structural or other damages in the remaining portions of the existing site that is not to be disturbed. Special care is to be exercised while removing any electrical installation, and notice is to be given to the Representative/Agent when any disconnections, removal of wire, etc., are to be carried out. The Contractor shall remove and hand over to the school with any furniture, fittings or similar articles from the buildings including giving adequate notice to the Representative/Agent if the removal of any such articles from parts of the buildings is to be done before the Contractor commences work in such parts. The Contractor will be held solely responsible for any damage to persons and property and for the safety of the structures and must make good at his own expense any damage that may occur. <u>Damage and repairs to services:</u> Should the Contractor damage any services which are to remain in operation or any services which have not yet been disconnected prior to removal, then the Contractor will be held solely responsible for such damage and any further resultant damage. Carried Forward Section No. 2 Bill No. 1 Demolitions Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				
			R		

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward The Contractor shall immediately notify the Representative/Agent and the Authorities concerned and he shall at his own cost make all necessary arrangements for disconnection and repairs with the relevant Authorities and shall pay all fees and charges levied. <u>Disposal of material:</u> All existing materials specified to be "removed", "demolished and removed", "hacked up or off and removed", or "taken down or off and removed" or "broken down and removed", etc., become the property of the Contractor. These materials and all debris, rubbish and earth material must be carted away by the Contractor and the site must be left clean and unencumbered. The contractor must make his own arrangements for dumping and shall pay all fees and charges levied. If any of the bricks or other materials specified to be "removed" are sound and considered suitable for any portion of the new work they must be thoroughly cleaned off and stacked on site for inspection by the Representative/Agent. The approval of the Representative/Agent must be obtained before any such materials are re-used in the new work. All existing materials specified to be "taken down and set aside for re-use" or "taken down and set aside" shall remain the property of the Employer and must be cleaned off, cleared of all nails, etc., and neatly stacked and stored on site by the Contractor where directed and carefully handled during taking down, storage and re-fixing. The Contractor will be held responsible for the safety of these materials and must take all the necessary precautions for their protection and any damage or loss that may occur must be made good by the Contractor at his own expense. Carried Forward Section No. 2 Bill No. 1 Demolitions Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward				R	
<u>GENERAL DEMOLITIONS</u>					
<u>Breaking up and removing:</u>					
1	Mesh reinforced concrete surface beds, paving, etc. not exceeding 150mm thick	m2	595		
<u>Demolishing and removing:</u>					
2	Single storey building with pitched roof, approximately 12 577mm x 22 048mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, veranda, plumbing and drainage fittings and fixtures, roof covering on timber trusses all complete (<i>Block A - Administration Block</i>)	No	1		
3	Single storey building with pitched roof, approximately 10 551mm x 15 389mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, roof covering on timber trusses all complete (<i>Block C - Library Block</i>)	No	1		
4	Single storey building with pitched roof, approximately 10 449mm x 30 126mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, walkways, roof covering on timber trusses all complete (<i>Block D - Classroom Block</i>)	No	1		
5	Single storey building with pitched roof, approximately 10 837mm x 15 365mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, walkways, plumbing and drainage fittings and fixtures, roof covering on timber trusses all complete (<i>Block E - Nutrition Block</i>)	No	1		
Carried Forward				R	
Section No. 2 Bill No. 1 Demolitions Tender Bills of Quantities Development Bank of Southern Africa (DBSA)					

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
6	Single storey building with pitched roof, approximately 8 660mm x 61 800mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, walkways, roof covering on timber trusses all complete (<i>Block F - Classroom Block</i>)	No	1	
7	Single storey building with pitched roof, approximately 8 080mm x 11 294mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, walkways, plumbing and drainage fittings and fixtures, roof covering on timber trusses all complete (<i>Block G - Ablution Block</i>)	No	1	
8	Single storey building with pitched roof, approximately 9 360mm x 62 000mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, walkways, roof covering on timber trusses all complete (<i>Block H - Classroom Block</i>)	No	1	
9	Single storey building with pitched roof, approximately 8 048 x 12 394mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, walkways, plumbing and drainage fittings and fixtures, roof covering on timber trusses all complete (<i>Block I - Ablution Block</i>)	No	1	
10	Single storey building with pitched roof, approximately 8 660mm x 61 230mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, walkways, roof covering on timber trusses all complete (<i>Block J and K - Classroom Block</i>)	No	1	
11	Single storey building with pitched roof, approximately 8 080 x 12 394mm on plan and 2700mm at eaves, comprising reinforced concrete surface bed, reinforced foundations, one brick external walls, one brick and half brick internal walls, doors, windows, walkways, plumbing and drainage fittings and fixtures, roof covering on timber trusses all complete (<i>Block L - Ablution Block</i>)	No	1	
Carried Forward			R	
Section No. 2 Bill No. 1 Demolitions Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u> <u>EARTHWORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of Ground:</u> The tenderer is required to visit the site, acquaint himself with the site conditions and to ascertain the exact nature of the ground to be excavated <u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site. <u>Excavations, Filling , etc.</u> The Contractor shall notify the Principal Agent as soon as the excavations are ready to receive foundations and no building work may be started until the Principal Agent has approved the excavations. Over excavations taken beyond the levels and sizes shown or required to obtain a solid foundation shall be filled by the contractor, at his own expense, with 15MPa concrete. Should the Contractor consider that any of the excavations are more difficult in nature than excavations in "earth" he shall immediately notify the Quantity Surveyor in writing. Failing such notification the excavations shall be deemed to be in "earth" and shall be measured and valued accordingly. The Contractor may use any method he chooses to excavate any class of material, but his chosen method of excavations shall not determine the classification of the material excavated. Carried Forward Section No. 2 Bill No. 2 Earthworks Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

	Brought Forward <u>Blasting:</u> No blasting will be allowed without the written permission of the Principal Agent Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works. The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense <u>Testing:</u> Prices for filling are to include for all necessary density tests in accordance with SANS 1200D <u>Prescribed density tests:</u> NOTE: The Contractor is specifically referred to the SANS 1200 clause regarding the number of density tests required on the layer work, filling, etc. The tests as prescribed are deemed to be included in the appropriate rates for the layer work, filling, etc. and will not be paid for separately. The following density tests measured are over and above those normally required by SANS 1200 and is for the use of the Engineer only and will only be paid for if instructed in writing and approved as acceptable by the Engineer <u>SITE CLEARANCE</u> <u>Site clearance:</u> 1 Digging up and removal of rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc., including grubbing up all roots, as required and cart away all vegetation and debris 2 Stripping average 200mm thick layer of top soil and stockpiling on site Carried Forward Section No. 2 Bill No. 2 Earthworks Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>EXCAVATIONS, FILLING, ETC.</u>				
	<u>EXCAVATIONS</u>				
	<u>Open face excavation in all materials other than rock over sloping site:</u>				
3	Reduced levels under floors	m3	3 514		
	<u>Excavation in all materials other than rock not exceeding 2m deep:</u>				
4	Trenches	m3	727		
	<u>Extra over excavation other than bulk in all materials for excavation in (on-site verification required for payment):</u>				
5	Soft rock	m3	424		
6	Hard rock	m3	212		
	<u>CARTING AWAY OF EXCAVATED MATERIAL</u>				
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
7	Off site to a dumping site to be found by the Contractor	m3	1 343		
	<u>RISK OF COLLAPSE OF EXCAVATIONS OTHER THAN BULK</u>				
	<u>Risk of collapse to:</u>				
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1 616		
	Carried Forward			R	
	Section No. 2 Bill No. 2 Earthworks Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School

Brought Forward				R	
<u>WORKING SPACE</u>					
<u>Back excavation of vertical sides of excavation in all materials other than rock for working space including backfilling compacted to 93% Mod. AASHTO maximum density:</u>					
9	Exceeding 500mm and not exceeding 1500mm deep for erection and removal of formwork to strip footing, bases, ground beams, etc.	m2	1 616		
<u>KEEPING EXCAVATIONS FREE OF WATER</u>					
10	Keeping excavations free of all water other than subterranean water		Item		
<u>FILLING</u>					
<u>Filling with approved material from the excavations and spread, level, water and compact in 150mm layers to a density of at least 93% Mod.AASHTO maximum and trim level:</u>					
11	Under floors, pavings, etc.	m3	2 898		
<u>Coarse river sand filling compacted to 100% Mod. AASHTO maximum density:</u>					
12	Under floors, etc.	m3	47		
<u>LAYER WORKS</u>					
<u>Filling with G5 approved material supplied and carted onto site by the Contractor, compacted to a density of at least 98% Mod. AASHTO maximum density:</u>					
13	Under floors, etc.	m3	502		
<u>Filling with G7 approved material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>					
14	Under floors, etc.	m3	502		
Carried Forward				R	
Section No. 2 Bill No. 2 Earthworks Tender Bills of Quantities Development Bank of Southern Africa (DBSA)					

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> <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 Engineer (Test cubes are measured separately). <u>Formwork:</u> Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described. 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.			
	Carried Forward		R	
	Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

Brought Forward			R	
Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks". <u>Concrete in panels:</u> Descriptions of surface beds cast in panels shall be deemed to include casting in panels approximately 9m². Descriptions (prices) of concrete in surface beds cast in panels shall be deemed to include formwork, fillets and the like in forming the panels. <u>CONCRETE</u> <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>15 Mpa/19mm Concrete:</u>				
1	Surface blinding under bases, beams, footings, etc.	m3	47	
<u>REINFORCED CONCRETE</u> <u>25 Mpa/19mm Concrete:</u>				
2	Average 175 wide x 100mm deep thickening, including all necessary excavations, cart away, etc.	m3	3	
3	Average 500 wide x 240mm deep thickening, including all necessary excavations, cart away, etc.	m3	48	
4	Average 600 wide x 120mm deep thickening, including all necessary excavations, cart away, etc.	m3	11	
5	Strip footings	m3	236	
6	220mm Thick walls	m3	7	
7	Surface beds on waterproofing	m3	565	
8	Slabs including beams and inverted beams	m3	3	
Carried Forward			R	
Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>FINISHING TOP SURFACE OF CONCRETE</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Surface beds, slabs, etc.	m2	3 341		
	<u>CONCRETE SUNDRIES</u>				
	<u>Sundries:</u>				
10	40mm Expanded Polystyrol board under surface beds	m2	3 324		
	<u>TEST BLOCKS</u>				
	<u>Test blocks:</u>				
11	Making and testing sets of three 150 x 150 x 150 mm concrete strength test cubes (Provisional)	Sets	146		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
	<u>Rough formwork to sides:</u>				
12	Strip footings	m2	673		
13	Walls	m2	59		
	<u>Rough formwork to soffits</u>				
14	Slabs with sloping soffits propped up exceeding 1.5m high and not exceeding 3.0m high	m2	24		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
15	Edges, risers, ends, and reveals exceeding 300mm high	m	411		
	Carried Forward			R	
	Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Brought Forward			R
<u>MOVEMENT JOINTS, ETC.</u>			
<u>Isolation joints with "Sondo Jointex" or equal and approved joint forming material in movement joint:</u>			
16	10mm Joints between surface beds and brick wall not exceeding 300mm wide	m	2 144
<u>Saw cut joints:</u>			
17	40 x 3mm Saw cut joint in top of concrete	m	851
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Mild steel reinforcement to structural concrete work:</u>			
18	Mild steel bars of varying diameter	t	7.54
<u>High tensile steel reinforcement to structural concrete work:</u>			
19	High tensile steel bars of varying diameter	t	11.99
<u>Fabric reinforcement:</u>			
20	Type 245 fabric reinforcement in concrete surface in concrete surface beds, slabs, etc.	m2	3 324
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 3			
Concrete, Formwork and Reinforcement			
Tender Bills of Quantities			
Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick. <u>Hollow walls etc:</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. <u>Face bricks:</u> Bricks shall be ordered timeously to obtain uniformity in size and colour. <u>Pointing:</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc. All pointing to be approved by the Architect via sample panel which is to be built on site. <u>Sample panels:</u> 1 The contractor to build a sample panel size 1500 x 1000mm high detailing quality of face brick work to the approval of Architect at contractors cost			
	Carried Forward		R	
	Section No. 2 Bill No. 4 Masonry Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>BRICKWORK</u>				
	<u>FOUNDATIONS</u>				
	<u>Brickwork of NFP bricks in class II mortar:</u>				
2	One brick walls	m2	477		
	<u>SUPERSTRUCTURE</u>				
	<u>Mass brickwork and piers:</u>				
3	330 x 330mm Brick piers, in heights not exceeding 3m high	m3	26		
4	L-shaped piers	m3	3		
5	T-shaped piers	m3	2		
	<u>Brickwork of NFP bricks in class II mortar:</u>				
6	Half brick walls	m2	407		
7	Half brick walls in beam filling	m2	529		
8	One brick walls	m2	3 233		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Joint forming material in movement joints:</u>				
9	10mm "Sondor Jointex" polyethylene joint filler with tear-off strip built in vertically between brickwork and or concrete not exceeding 300mm wide or high	m	435		
	<u>Brickwork reinforcement (Provisional):</u>				
10	75mm Wide reinforcement built in horizontally	m	3 670		
11	150mm Wide reinforcement built in horizontally	m	12 679		
	<u>Pre stressed fabricated concrete lintels including necessary temporary supports:</u>				
12	Lintels in lengths not exceeding 3m suitable for half brickwall	m	51		
	Carried Forward			R	
	Section No. 2 Bill No. 4 Masonry Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
13	Lintels in lengths not exceeding 3m suitable for one brick wall (one side of one brick wall to receive face brick lintel (e/w measured)	m	389		
14	Lintels in lengths not exceeding 3m suitable for one brick wall	m	61		
15	Lintels in lengths exceeding 3m and not exceeding 4,5m	m	308		
	<u>Galvanised hoop iron cramps, ties, etc.:</u>				
16	30 x 1mm Wall tie 600mm long with both ends built into brickwork	No	1 033		
	<u>Air bricks, etc.:</u>				
17	200 x 200 x 30mm Thick terracotta vermin proof air brick	No	4		
	<u>FACE BRICKWORK</u>				
	<u>Face bricks prime cost of R7 500.00 per thousand excluding VAT delivered to the site pointed with square recessed horizontal and vertical joints:</u>				
18	Extra over brickwork for face brickwork	m2	2 455		
19	Extra over half brick wall for facing beam filling	m2	529		
20	Extra over brickwork for facing 330 x 330mm piers	m3	26		
	<u>Brick-on-edge header course copings, sills, etc. of face bricks, pointed with flush joints on all exposed faces:</u>				
21	Extra over brickwork for face brick-on-edge header lintel 110mm wide	m	802		
22	220mm Wide brick-on-edge header course sills set sloping and slightly projecting	m	366		
	<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>				
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc.:</u>				
23	24 x 120mm Window sills set flat and slightly projecting	m	339		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2				
	Bill No. 4				
	Masonry				
	Tender Bills of Quantities				
	Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing:</u>			
	Waterproofing of roofs, basements, etc., shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc., with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMP PROOF COURSE</u>			
	<u>One layer of 375 micron consol plastics brikgrip DPC embossed damp proof course or equal and approved:</u>			
1	Horizontally in walls	m2	300	
	<u>One layer of 350 micron Consol Plastics Gunplas USB Green waterproof sheeting (or equal and approved) sealed at laps with Gunplas Pressure Sensitive Tape:</u>			
2	Under surface beds	m2	3 324	
	<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
	<u>4mm Derbigum SP or equal and approved fully bonded waterproofing:</u>			
3	On roofs	m2	17	
4	Flashing strip 300mm girth at turn-ups including sealing top edge into groove with mastic	m	17	
5	Additional membrane 300mm girth at internal and external angles	m	17	
6	On internal surfaces of 50mm diameter full bore outlet	No	1	
	Carried Forward		R	
	Section No. 2 Bill No. 5 Waterproofing Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

Brought Forward			R
<u>PROTECTIVE STONE DRESSING</u>			
<u>19mm Crushed stone dressing evenly spread with larger stones around outlets:</u>			
7	19mm Thick on waterproofing to sloping roofs	m2	17
<u>PROTECTIVE ROOFING PAINT</u>			
<u>Two coats Silvakote bituminous aluminium paint:</u>			
8	On waterproofing to roofs	m2	17
<u>WATER STOPS, SEALING STRIPS, JOINT SEALANTS, ETC.</u>			
<u>Two part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc., including raking out expansion joint filler if necessary:</u>			
9	12 x 12mm In expansion joints in floors	m	2 144
<u>Approved polyurethane sealing compound including backing cord, bond breaker, primer, etc.:</u>			
10	In joints between steel frames and walls	m	691
<u>Silicone sealing, etc.:</u>			
11	Joints not exceeding 10mm between timber skirting and wall	m	1 378
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 5			
Waterproofing			
Tender Bills of Quantities			
Development Bank of Southern Africa (DBSA)			

Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u> <u>ROOF COVERINGS, CLADDINGS, ETC.</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Ribbed roofing sheets:</u> The sheets shall be fixed in accordance with the manufacturer's recommendations with side-laps on the leeward side of the prevailing wind direction. <u>Cutting of sheets:</u> All cutting of sheets shall be properly performed and all exposed cut edges shall be perfectly straight and treated to match roof finish. <u>PROFILED SHEETING OF METAL, FIBRE-CEMENT, PLASTIC, ETC.</u> <u>Roof covering:</u> <u>0.55mm Thick "Saflok 700 Rain Cloud Colorplus" or equal and approved interlocking concealed fix roof covering, fixed to timber purlins at 2112mm centres and end-span purlins at 1920mm centres (final spacing to calculated by an engineer) by means of a SL 700 clip 21 clips secured to purlins in combination with a suitable class Safintra approved wafer head self-tapping fasteners and accessories:</u>			
1	Roof covering with pitch not exceeding 25 degrees, in transportable lengths not exceeding 20m	m2	4 803	
	<u>0.55mm Thick "Saflok 700 Rain Cloud Colorplus" or equal and approved roof sheeting accessories:</u>			
2	Ridge capping 462mm girth, one time bent including broad flute serrated closer	m	289	
3	Gable trim (barge flashing) 580mm girth, three times bent	m	75	
4	Valley flashing 462mm girth three times bent	m	44	
	Carried Forward			
	Section No. 2 Bill No. 6 Roof Coverings, Claddings, Etc. Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount	
	<u>BILL NO. 7</u> <u>CARPENTRY AND JOINERY</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Particle board:</u> Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type <u>Joinery:</u> Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete <u>Decorative laminate finish:</u> Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish				
	Carried Forward Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R		

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward				R	
<u>ROOFS, ETC.</u>					
<u>STRUCTURAL TIMBER WORK, ETC.</u>					
<u>Plate nailed timber roof truss construction</u>					
<u>Prefabricated, sawn softwood timber roof construction complete including purlins, runners, bracing hips, valleys, cleats, etc.:</u>					
1	Roof construction to double pitched roof with two hipped ends 38 080 x 11 720mm and 1800mm high overall including wall plates, trusses, jack rafters, permanent bracing and 38 x 76mm purlins/battens at centres for roof covering (<i>Block A & C - Refer to Architect's drawing No: 082-PSS-ND-105 Rev A, Block F, D & B - Refer to Architect's drawing No: 082-PSS-ND-106 Rev A, Block E & G - Refer to Architect's drawing No: 082-PSS-ND-104 Rev A</i>)	No	7		
2	Roof construction to double pitched roof with two hipped ends 34 325 x 12 905mm and 1800mm high overall including wall plates, trusses, jack rafters, permanent bracing and 38 x 76mm purlins/battens at centres for roof covering (<i>Administration Block - Refer to Architect's drawing No: 082-PSS-ND-107 Rev A</i>)	No	1		
3	Roof construction to double pitched roof with two hipped ends 24 392 x 14 388mm and 1800mm high overall including wall plates, trusses, jack rafters, permanent bracing and 38 x 76mm purlins/battens at centres for roof covering (<i>Dining and Nutrition Building - Refer to Architect's drawing No: 082-PSS-ND-109 Rev A</i>)	No	1		
4	Roof construction to double pitched roof with two hipped ends 30 900 x 19 861mm and 1800mm high overall including wall plates, trusses, jack rafters, permanent bracing and 38 x 76mm purlins/battens at centres for roof covering (<i>Media Centre Building - Refer to Architect's drawing No: 082-PSS-ND-107 Rev A</i>)	No	1		
5	Roof construction to double pitched roof with two hipped ends 4 127 x 4 000mm and 800mm high overall including wall plates, trusses, jack rafters, permanent bracing and 38 x 76mm purlins/battens at centres for roof covering (<i>Guard House - Refer to Architect's drawing No: 082-PSS-ND-114 Rev A</i>)	No	1		
Carried Forward				R	
Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)					

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
<u>Allow for the preparation and submission of the following documents:</u>				
<u>Classrooms (Block A & C, Block F, D & B, Block E & G):</u>				
6	Detailed shop drawings indicating truss sizes, truss positions, bracing, details, etc. to be submitted for approval prior the commencement of any fabrication	No	7	
7	Design certificate indicating the licensed programme used, SABS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.	No	7	
8	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Architect	No	7	
<u>Administration Block:</u>				
9	Detailed shop drawings indicating truss sizes, truss positions, bracing, details, etc. to be submitted for approval prior the commencement of any fabrication (Boys & Grills Dormitory)	No	1	
10	Design certificate indicating the licensed programme used, SABS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.	No	1	
11	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Architect	No	1	
<u>Dining and Nutrition Block:</u>				
12	Detailed shop drawings indicating truss sizes, truss positions, bracing, details, etc. to be submitted for approval prior the commencement of any fabrication.	No	1	
13	Design certificate indicating the licensed programme used, SABS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.	No	1	
Carried Forward			R	
Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
14	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Architect	No	1		
	<u>Media Centre Block:</u>				
15	Detailed shop drawings indicating truss sizes, truss positions, bracing, details, etc. to be submitted for approval prior the commencement of any fabrication	No	1		
16	Design certificate indicating the licensed programme used, SABS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.	No	1		
17	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Architect	No	1		
	<u>Guard House:</u>				
18	Detailed shop drawings indicating truss sizes, truss positions, bracing, details, etc. to be submitted for approval prior the commencement of any fabrication	No	1		
19	Design certificate indicating the licensed programme used, SABS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.	No	1		
20	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Architect	No	1		
	<u>Wall plates, bracing, purlins, battens, etc.:</u>				
21	38 x 114mm Wall plates	m	939		
	<u>EAVES, VERGES, ETC</u>				
	<u>Aluminium fascias and barge boards:</u>				
22	10 x 225mm Fascias boards including galvanised steel H-profile jointing	m	976		
	Carried Forward			R	
	Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
23	10 x 225mm Barge boards including galvanised steel H-profile jointing	m	75		
	<u>SKIRTINGS</u>				
	<u>Wrought meranti:</u>				
24	19 x 75mm Skirting with and including 19mm quater round quadrant plugged and screwed	m	1 378		
	<u>DOORS, ETC.</u>				
	<u>Wrought meranti doors:</u>				
25	44mm Framed, ledged and braced batten single door 813 x 2032mm high of 110mm wide top rail and stiles, 22 x 150mm middle ledge and braces and 44 x 225mm bottom rail, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top and bottom rails and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint (<i>Door Type D01 - Refer to Typical Door Schedules 082-PSS-600, Rev A</i>)	No	46		
26	16mm Thick double duct door size 1000 x 1845mm high in two equal leaves with supawood cladding to external faces (<i>Door Type D09 - Refer to Typical Door Schedules 082-PSS-600, Rev A</i>)	No	2		
27	16mm Thick double duct door size 1500 x 1845mm high in two equal leaves with supawood cladding to external faces (<i>Door Type D08 - Refer to Typical Door Schedules 082-PSS-600, Rev A</i>)	No	3		
	<u>Solid flush panel doors with hardboard both sides and concealed edges:</u>				
28	40mm Thick single door size 813 x 2032mm high (<i>Door Type D02, D06 - Refer to Typical Door Schedules 082-PSS-600, Rev A</i>)	No	46		
	Carried Forward			R	
	Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>FITTINGS</u> <u>THE FOLLOWING IN THE ADMINISTRATION BLOCK FIXED FURNITURE AS PER ATTACHED DRAWING (DRAWING NO. 082-PSS-ND-108 REV A, REFERENCED "PROPOSED NEW ADMINISTRATION BUILDING: JOINERY DETAILS")</u> <u>Strong Room shelving:</u> 33 Overall size 5600 x 450 x 1970mm high epoxy powder coated metal adjustable shelving free standing unit, colour white, bolted together with metal corner support posts with feet including PVC corner fittings all complete No 1 <u>Print Room shelving:</u> 34 Overall size 4350 x 450 x 1970mm high epoxy powder coated metal adjustable shelving free standing unit, colour white, bolted together with metal corner support posts with feet including PVC corner fittings all complete No 1 <u>Stationary Store shelving:</u> 35 Overall size 10 250 x 450 x 1970mm high epoxy powder coated metal adjustable shelving free standing unit, colour white, bolted together with metal corner support posts with feet including PVC corner fittings all complete No 1 <u>Principal's Office shelving and counter top:</u> 36 Overall size 2800 x 600 x 900mm high 16mm wrapped melamine cupboards including open shelving on adjustable shelf system complete with 933 x 400mm high shelf compartments, wrapped melamine counter top with locks, 160mm aluminium barrel handles on cupboard doors and wrapping of plinths/skirting with melamine all complete No 1				
	Carried Forward			R	
	Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward				R	
	<u>Kitchenette:</u>				
37	Overall size 4680 x 600 x 1200mm high 32mm formica finished chipboard worktop including 100 x 22mm support clad in melamine to match cupboards, screwed against wall to support counter top, cut-out for sink hole (<i>sink elsewhere measured</i>)	No	1		
	<u>THE FOLLOWING IN THE DINING AND NUTRITION BUILDING FIXED AND LOOSE FURNITURE AS PER ATTACHED DRAWING (DRAWING NO. 082-PSS-ND-110 REV A, REFERENCED "PROPOSED NEW DINING AND NUTRITION BUILDING: JOINERY DRAWINGS")</u>				
	<u>Dry Bulk Store shelving:</u>				
38	Overall size 4040 x 450 x 1970mm high epoxy powder coated metal adjustable shelving free standing unit, colour white, bolted together with metal corner support posts with feet including PVC corner fittings all complete	No	1		
	<u>Day Store shelving:</u>				
39	Overall size 1500 x 450 x 1970mm high epoxy powder coated metal adjustable shelving free standing unit, colour white, bolted together with metal corner support posts with feet including PVC corner fittings all complete	No	1		
40	Overall size 3243 x 450 x 1970mm high epoxy powder coated metal adjustable shelving free standing unit, colour white, bolted together with metal corner support posts with feet including PVC corner fittings all complete	No	1		
	<u>Veg Store shelving:</u>				
41	Overall size 3 795 x 450 x 1970mm high epoxy powder coated metal adjustable shelving free standing unit, colour white, bolted together with metal corner support posts with feet including PVC corner fittings all complete	No	1		
Carried Forward				R	
Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)					

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
<u>Kitchen tables and worktops:</u>				
42	Overall size 1500 x 650 x 900mm high stainless steel table and worktop, grade 304 stainless steel 1.2mm thick with a 50 x 10mm turn-down all the way round, underside to be sprayed with vermin proof bitumastic sound deadening complete with square legs and stainless steel under shelf, stainless steel WHB built seamlessly into the table with all necessary plumbing fixtures	No	4	
43	Overall size 1850 x 650 x 900mm high stainless steel table and worktop, grade 304 stainless steel 1.2mm thick with a 50 x 10mm turn-down all the way round, underside to be sprayed with vermin proof bitumastic sound deadening complete with square legs and stainless steel under shelf	No	1	
44	Overall size 2400 x 650 x 900mm high stainless steel table and worktop, grade 304 stainless steel 1.2mm thick with a 50 x 10mm turn-down all the way round, underside to be sprayed with vermin proof bitumastic sound deadening complete with square legs and stainless steel under shelf, stainless steel WHB built seamlessly into the table with all necessary plumbing fixtures	No	1	
45	Overall size 1850 x 650 x 900mm high stainless steel servery table and worktop, grade 304 stainless steel 1.2mm thick with a 50 x 10mm turn-down all the way round, underside to be sprayed with vermin proof bitumastic sound deadening complete with square legs	No	4	
46	Overall size 3195 x 600 x 1200mm high 32mm formica finished servery chipboard worktop, screwed against wall with 100 x 22mm support clad in melamine to support matching cupboard and countertop all complete	No	1	
<u>Scullery:</u>				
47	Overall size 1600 x 600 x 1200mm high double pot stainless steel sink complete with square legs	No	1	
Carried Forward			R	
Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

	Brought Forward			R	
	<u>THE FOLLOWING IN THE MEDIA CENTRE FIXED AND LOOSE FURNITURE</u> <u>Store Room shelving as per attached drawing (Drawing No. 082-PSS-ND-112 Rev A, referenced "Proposed New Media Centre Building: Joinery Details"):</u>				
48	Overall size 5846 x 600 x 1970mm high epoxy powder coated metal adjustable shelving free standing unit, colour white, bolted together with metal corner support posts with feet including PVC corner fittings all complete No	2			
	<u>Library worktop and cupboards as per attached drawing (Drawing No. 082-PSS-ND-112 Rev A, referenced "Proposed New Media Centre Building: Joinery Details"):</u>				
49	Overall size 4400 x 800 x 1095mm high 32mm thick post-formed worktop with 180° bull nosed edges, wrapped in formica complete with cupboards, drawers, floating shelf wrapped in formica, 100 x 22mm support clad in melamine to match cupboards and provide support for shelf, 25mm aluminium trims, front facing panels wrapped in formica, locks and 160mm aluminium barrel handle with all internal carcasses to be wrapped in white formica, chipboard skirting or plinth wrapped in formica, colour to be confirmed No	1			
50	Overall size 21 690 x 300 x 1970mm high 16mm wrapped melamine open shelving on fixed shelf system complete with 851 x 304mm high shelf compartments with fittings and fixtures all complete No	1			
	<u>Computer Room worktop and cupboards As per attached drawing (Drawing No. 082-PSS-ND-113 Rev A, referenced "Proposed New Media Centre Building: Joinery Details 2"):</u>				
51	Overall size 955 x 800 x 750mm high 32mm formica Lifeseal® worktop fixed to frame in colour white complete with 275mm wide 16mm melawood panels for desktop shelf, melawood skirting, 30mm powder coated square steel horizontal tube frame in colour matte black No	4			
	Carried Forward			R	
	Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
52	Overall size 1600 x 800 x 750mm high 32mm formica Lifeseal® worktop fixed to frame in colour white complete with 250mm wide 16mm melawood panels for desktop shelf, melawood skirting, 30mm powder coated square steel horizontal tube frame in colour matte black	No	2	
53	Overall size 1600 x 800 x 750mm high 32mm formica Lifeseal® worktop fixed to frame in colour white complete with 2x 275mm wide 16mm melawood panels for desktop shelf, melawood skirting, 30mm powder coated square steel horizontal tube frame in colour matte black	No	32	
<u>THE FOLLOWING IN CLASSROOM BLOCKS FIXED AND LOOSE FURNITURE</u>				
<u>Storeroom Shelving and Classroom Cupboards as per attached drawing (Drawing No. 082-PPS-ND-104, Rev A, referenced "New x3 Classrooms Block with Ablutions, Block E & G"):</u>				
54	Overall size 4700 x 600 x 1970mm high adjustable shelves complete with 20mm melamine or similar and approved base and shelves, 3mm thick white PVC impact edging to all exposed edges, shelving countersunk screwed to brackets below, epoxy powder coated metal free standing units bolted together with metal corner support posts with fitted feet and PVC corners	No	8	
55	Overall size 900 x 450 x 1800mm high steel/metal stationary cupboard, colour hammertone grey complete with 4x shelves	No	6	
<u>Storeroom Shelving and Classroom Cupboards as per attached drawing (Drawing No. 082-PPS-ND-106, Rev A, referenced "New 4x Classrooms Block - Block F, D & B"):</u>				
56	Overall size 4700 x 600 x 1970mm high adjustable shelves complete with 20mm melamine or similar and approved base and shelves, 3mm thick white PVC impact edging to all exposed edges, shelving countersunk screwed to brackets below, epoxy powder coated metal free standing units bolted together with metal corner support posts with fitted feet and PVC corners	No	12	
Carried Forward			R	
Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

Brought Forward			R
57	Overall size 900 x 450 x 1800mm high steel/metal stationary cupboard, colour hammertone grey complete with 4x shelves	No	12
<u>Storeroom Shelving and Classroom Cupboards as per attached drawing (Drawing No. 082-PPS-ND-105, Rev A, referenced "New x3 Classrooms Block with Ablutions, Block A & C"):</u>			
58	Overall size 4700 x 600 x 1970mm high adjustable shelves complete with 20mm melamine or similar and approved base and shelves, 3mm thick white PVC impact edging to all exposed edges, shelving countersunk screwed to brackets below, epoxy powder coated metal free standing units bolted together with metal corner support posts with fitted feet and PVC corners	No	8
59	Overall size 900 x 450 x 1800mm high steel/metal stationary cupboard, colour hammertone grey complete with 4x shelves	No	6
Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 7 Carpentry and Joinery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			R

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u> <u>CEILINGS, PARTITIONS, ACCESS FLOORING, ETC.</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions:</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations <u>Flush plastered suspended ceilings, bulkheads, etc.:</u> Descriptions of ceilings, bulkheads, etc are deemed to include for the total design, fabrication, erection, etc of suspension systems, grids, sub-grids, hangers, framing, bracing, etc and for gypsum plasterboard as described fixed with Rhino Drywall screws to tee section Screw-Up suspension system or Drywall steel tracks, studs, rails, braces, etc. All joints in boards are to be covered with 50mm wide self adhesive Fibatape and whole finished with Rhinolite gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer, including galvanised pressed metal beads, arrises to the plaster, etc			
	Carried Forward		R	
	Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R		
<u>General:</u> Description of ceilings, bulkheads, etc generally are deemed to include for all necessary bridging, hangers, bracing, etc over and around services, pipes, air-conditioning ducting, etc occurring within the ceiling and/or bulkhead voids and no claims for extras will be entertained for non co-ordination with other sub-contractors involved in this regard All work to be executed in strict accordance with the manufacturer's recommendations and carried out by specialist ceiling and bulkhead installers <u>NAILED - UP CEILINGS</u> <u>6mm "Rhino" gypsum plasterboard with 50 x 20mm cover strips over joints:</u>					
1	Ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	3 352		
2	Extra over fibre-cement ceiling for 600 x 600mm trap door of 38 x 38mm wrot softwood rebated framing with one 38 x 76mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	43		
<u>Gypsum plasterboard cornices:</u>					
3	75mm Coved cornice	m	2 896		
<u>"Aeropink" or equal and approved non-combustible lightweight fibreglass insulation:</u>					
4	135mm Insulation in blanket form, closely fitted and laid on top of brander between roof timbers, etc.	m2	3 352		
Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				R	

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

Item No	Quantity	Rate	Amount
BILL NO. 10			
<u>FLOOR COVERINGS, PLASTIC LININGS, ETC.</u>			
<u>FLOOR COVERINGS</u>			
<u>300 x 300 x 2.5mm Semi-flexible or fully flexible vinyl tiles with two colour patterns with approved adhesive in strict accordance to manufacturer's instructions (colour to be confirmed by architect)</u>			
1	On floors m2	2 282	
<u>500 x 500mm Berberpoint 650 "Belgotex" carpet tiles or similar and approved, laid in accordance with the manufacturer's instructions</u>			
The carpet tiles to be installed in tufted multi scroll loop pile only			
2	On floors m2	24	
<u>POLISH, SEALERS, ETC.</u>			
3	Two coats of approved polish on vinyl flooring m2	2 282	
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 9			
Floor Coverings, Wall Linings, Etc.			
Tender Bills of Quantities			
Development Bank of Southern Africa (DBSA)			

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

Item No	Quantity	Rate	Amount
<u>BILL NO. 11</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Locks</u> Notwithstanding Clause 4 of the "Ironmongery" trade of the "Standard System of Measuring Building Work", descriptions of locks shall be deemed to include two keys per lock <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded All locks are Master key operational. All ironmongery is deemed to include fitment of screws that best match the finish of the item specified. <u>HINGES, BOLTS, ETC</u> <u>Gelmar or similar and approved:</u>			
1	1.5 Pairs concealed cupboard hinges with adjustable plate	No 5	
2	100mm Necked flush bolt	No 5	
<u>"Geze" or similar and approved.:</u>			
3	Stainless steel thumb turn and lock bolt complete	No 5	
Carried Forward			R
Section No. 2 Bill No. 10 Ironmongery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>CATCHES, CABIN HOOKS, ETC</u>				
	<u>LOCKS</u>				
	The following locks are to be suitable for master and grand master key operation				
	<u>"Geze" or similar and approved.:</u>				
4	Four lever security lockset approved by architect	No	138		
5	76mm Cylinder sash lock	No	138		
6	"Ref. N/PL KNOB" 66mm Cylinder	No	5		
	<u>HANDLES</u>				
	<u>Gelmar or similar and approved:</u>				
7	1.5 Pairs grade 304 stainless steel, 185mm barrel handle with square support	No	5		
	<u>"Geze" or similar and approved.:</u>				
8	130 x 111 x 19mm stainless back-to-back pull handles	No	5		
9	Marseilles lever handle on rose complete with cylinder escutcheon	No	138		
	<u>PUSH PLATES AND KICKING PLATES</u>				
	<u>Gelmar or similar and approved:</u>				
10	300 x 900 x 2mm Thick stainless steel kick plate to both sides of door	No	5		
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>"Geze" or similar and approved.:</u>				
11	160 x 160 x 1.2mm Thick stainless steel female toilet indicator sign	No	5		
12	160 x 160 x 1.2mm Thick stainless steel male toilet indicator sign	No	5		
	Carried Forward			R	
	Section No. 2 Bill No. 10 Ironmongery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R		
13	160 x 160 x 1.2mm Thick stainless steel paraplegic toilet indicator sign	No	5		
14	3 x 32mm High clear perspex name tags with white paint, countersunk holed and tap screwed to door frame	No	97		
15	3 x 32mm High clear perspex door number tags with white paint, countersunk holed and tap screwed to door frame	No	92		
<u>DOOR CLOSERS</u>					
<u>"Geze" or similar and approved.:</u>					
16	Adjustable power regular arm overhead door closer complete with standard guide rail	No	15		
<u>SUNDRIES</u>					
<u>"Geze" or similar approved.:</u>					
17	Stainless steel door stop , plugged	No	133		
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>					
<u>"Parrot" or equal approved pinning boards:</u>					
18	Pinning board size 3000mm x 1200mm high complete with concealed fittings and an anodised aluminium frame	No	28		
<u>"Parrot" or equal approved magnetic whiteboard and chalk board combo:</u>					
19	Whiteboard and chalk board combo, overall size 1820mm wide x 1220mm high centre magnetic panel and 4x 1220mm x 920mm high side panels with 2x panels comprising of chalkboard to the one side of the leaf and magnetic whiteboard to the other side of the leaf with pre drawn lines on both sides including all fittings and fixtures	No	26		
Carried Forward			R		
Section No. 2 Bill No. 10 Ironmongery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)					

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>BATHROOM FITTINGS</u>				
	<u>"Franke TR2" or similar and approved toilet roll holders:</u>				
20	281 x 126 x 136mm High locking double toilet paper roll holder plugged	No	46		
	<u>"Railman" or similar and approved:</u>				
21	"Type SR1" Stainless steel grab handle	No	5		
22	"DL2" 300 X 300 X 300mm Stainless steel side grab rail	No	5		
23	"SR2A" 670 X 246mm Stainless steel rear grab rail	No	5		
	<u>"Franke Stratos STRX611" or equal and approved sanitary towel waste bins:</u>				
24	205 x 134 x 305mm High x 1,2/1,5mm thick satin finished stainless steel sanitary towel disposal bin with a capacity of 3,8 litres, plugged and screwed to the wall with stainless steel screws	No	28		
	<u>"Franke Stratos STRX605" similar and approved waste bins:</u>				
25	300 x 270 x 520mm High x 1,2/1,5mm thick satin finished stainless steel waste bin with a capacity of 34 litres and cylinder lock with standard "Franke" or similar and approved key, plugged and screwed to the wall with stainless steel screws	No	15		
	<u>"Frank Stratos STRX618" or similar and approved soap dispensers:</u>				
26	100 x 134 x 304mm High x 1,2/1,5mm thick satin finished stainless steel soap dispenser including a replaceable and refillable 1 litre container, cylinder lock with standard "Franke" or similar and approved key, plugged and screwed to the wall with stainless steel screws	No	41		
	Carried Forward			R	
	Section No. 2 Bill No. 10 Ironmongery Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u> <u>STRUCTURAL STEELWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> All notes, specifications, instructions, references, requirements, preparations, finishes, etc. and construction details reflected on these drawings should be carefully studied and priced. The requirements, notes and specifications on the drawings are not repeated here as preambles but are applicable to the measured items in all respects. Tenderer are to find and refer to the detail drawings and specification for clarity and the full extent of descriptions when pricing ALL the items in this trade. No claim in this regard will be entertained. <u>Descriptions.:</u> Descriptions of bolts shall be deemed to include nuts and washers and shall be galvanised unless otherwise described. Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. <u>Note.:</u> Tenderer are advised to acquaint themselves with the structural engineer's structural steel layout and details with drawing numbers 18008/CE/500 and 18008/CE/501 before pricing this section. Should there be any discrepancies between these bills of quantities and the engineer's structural steel layout and details, the latter shall take precedence over these bills of quantities.			
	Carried Forward		R	
	Section No. 2 Bill No. 11 Structural Steelwork Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward				R	
<u>STEEL COLUMNS AND BEAMS/RAFTERS</u>					
<u>Mild steel lintel support beams including bolts, etc.:</u>					
1	90 x 90 x 8mm x 10,9kg/m Thick equal angle section lintel steel support	t	3.66		
2	6mm Diameter x 500mm long mild steel rod, once bent along the length with one end bolted to steel, all built in brickwork	No	432		
Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 11 Structural Steelwork Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Screens and gates, etc.</u>			
1	Single gate 925 x 2032mm high of 50 x 50mm mild steel square tube welded to form frame with 10 x 10mm mild steel bar diagonal rails at 100mm centres and fitted with a pair of suitable hinges welded to post, fitted with weld-on box housing for lock (lock elsewhere measured) (G01 - Refer to Typical Door Schedules 082-PSS-600, Rev A)	No	48	
2	Double gate 1280 x 1550mm high, each leaf of 900 x 1550mm and 380 x 1550mm high, 50 x 50mm mild steel square tube welded to form frame with 10 x 10mm mild steel bar diagonal rails at 100mm centres and fitted with a pair of suitable hinges to each leaf bolted to wall with and including expansion bolts, hasp and staple, drop bolt welded on, and fitted with weld-on box housing for lock (lock elsewhere measured) (G03 - Refer to Typical Door Schedules 082-PSS-600, Rev A)	No	1	
	Carried Forward		R	
	Section No. 2 Bill No. 12 Metalwork Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
3	Double gate 1630 x 2032mm high, each leaf of 815 x 2032mm, 50 x 50mm mild steel square tube welded to form frame with 10 x 10mm mild steel bar diagonal rails at 100mm centres and fitted with a pair of suitable hinges to each leaf bolted to wall with and including expansion bolts, hasp and staple, drop bolt welded on, and fitted with weld-on box housing for lock (lock elsewhere measured) (G02 - Refer to Typical Door Schedules 082-PSS-600, Rev A)	No	2	
4	50 x 50 x 5mm Thick angle section post with one flange five times holed for and bolted to brickwork (Bolts elsewhere measured)	No	102	
5	Ditto, but with three heavy duty hinges welded on other flange	No	102	
6	12mm Chemical anchor	No	204	
7	"CISA Security" or similar and approved 22mm gate lock complete with cylinder, striker plate and a 22mm rose set fitted in a 25 x 110mm high metal weld-on box	No	51	
<u>PRESSED STEEL DOOR FRAMES</u>				
<u>1,2mm Double rebated frames suitable for one brick walls</u>				
8	Frame for door 813 x 2032mm high	No	46	
<u>1,2mm Double rebated frames suitable for half brick and one brick walls</u>				
9	Frame for door 813 x 2032mm high	No	87	
<u>STEEL WINDOWS, DOORS, ETC.</u>				
<u>Standard steel D Type residential open in side and top hung windows with factory fitted burglar bars to entire window (to comply with SANS 10400):</u>				
10	Window type W01, 1022 x 1245mm high (Refer to Typical Window Schedules 082-PSS-601, Rev A)	No	13	
11	Window type W02, 1022 x 949mm high (Refer to Typical Window Schedules 082-PSS-601, Rev A)	No	7	
Carried Forward			R	
Section No. 2 Bill No. 12 Metalwork Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
<u>Standard steel E Type residential open in side and top hung windows with factory fitted burglar bars to entire window (to comply with SANS 10400):</u>				
12	Window type W03, 1022 x 654mm high (<i>Refer to Typical Window Schedules 082-PSS-601, Rev A</i>)	No	20	
13	Window type W04, 533 x 654mm high (<i>Refer to Typical Window Schedules 082-PSS-601, Rev A</i>)	No	55	
<u>Standard steel school residential section bottom hung open in windows with factory fitted burglar bars to entire window (to comply with SANS 10400):</u>				
14	Window type W05, 889 x 1248mm high (<i>Refer to Typical Window Schedules 082-PSS-601, Rev A</i>)	No	253	
15	Window type W06, 889 x 854mm high (<i>Refer to Typical Window Schedules 082-PSS-601, Rev A</i>)	No	20	
16	Window type W07, 889 x 457mm high (<i>Refer to Typical Window Schedules 082-PSS-601, Rev A</i>)	No	23	
17	Window type W08, 1500 x 1250mm high (<i>Refer to Typical Window Schedules 082-PSS-601, Rev A</i>)	No	16	
18	Window type W09, 900 x 850mm high (<i>Refer to Typical Window Schedules 082-PSS-601, Rev A</i>)	No	9	
<u>Standard steel cottage pane french door, sidelights, fanlights, etc.:</u>				
19	Double door type D03, overall size 1524 x 2032mm high with cottage section rolled steel sections, silicon sealing at face brick (<i>Refer to Typical Door Schedules 082-PSS-600, Rev A</i>)	No	5	
Carried Forward			R	
Section No. 2 Bill No. 12 Metalwork Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Brought Forward			R
<u>STEEL ROLLER SHUTTERS ETC</u>			
<u>"Aluminium" roller shutters fixed to brickwork or concrete</u>			
20	Chain operated standard grill type roller shutter for 1200 x 905mm high opening with frame as per manufacturer's details (R01 - Refer to Typical Door Schedules 082-PSS-600, Rev A)	No	1
21	Chain operated standard grill type roller shutter for 3000 x 905mm high opening with frame as per manufacturer's details (R02 - Refer to Typical Door Schedules 082-PSS-600, Rev A)	No	1
<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u>			
<u>"Bitcon" or equal and approved Strongroom doors, etc., suitable for 220mm walls fixed to brickwork or concrete</u>			
22	Single door and frame size 813x 2032mm high overall with a mass of 2590kg complete with ironmongery as per manufacturer's details	No	1
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 12			
Metalwork			
Tender Bills of Quantities			
Development Bank of Southern Africa (DBSA)			

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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Item No	Quantity	Rate	Amount
<u>BILL NO. 15</u>			
<u>TILING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
<u>Fixing:</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc. shall be deemed to include 1:3 plaster bedding.			
Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.			
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the range of products as recommended by the manufacturer of the tiles.			
<u>WALL TILING</u>			
<u>200 x 200mm "Johnson" or equal and approved gloss white tiles (PC R250/m² supply and delivery) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted jointing compound:</u>			
1	On walls	m2	697
2	On walls in isolated panels, splash backs, etc.	m2	10
<u>FLOOR TILING</u>			
Carried Forward			R
Section No. 2 Bill No. 14 Tiling Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 16</u> <u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>"Polycop" polypropylene pipes:</u> Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions All pipe diameters are nominal external <u>"Polylink" polypropylene pipes:</u> Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions Carried Forward Section No. 2 Bill No. 15 Plumbing and Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward All pipe diameters are nominal external <u>Concrete pipes:</u> Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings <u>Vitrified clay pipes:</u> Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings <u>uPVC pipes and fittings:</u> Soil, waste and vent pipes and fittings shall be solvent weld jointed <u>uPVC pressure pipes and fittings:</u> Pipes for water supply shall be of the class stated Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints Carried Forward Section No. 2 Bill No. 15 Plumbing and Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R R	
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	Brought Forward <u>Copper pipes:</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground <u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level <u>Lead pipes and fittings</u> All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained <u>Wire gratings</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings Carried Forward Section No. 2 Bill No. 15 Plumbing and Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward <u>Septic tanks</u> Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions <u>Exposed concrete surfaces</u> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster <u>Excavations</u> No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks" <u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding <u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary Carried Forward Section No. 2 Bill No. 15 Plumbing and Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward <u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable <u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings <u>Steel sectional water tanks</u> Tanks shall comply with SABS CKS 114 <u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u> Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc <u>SANITARY FITTINGS</u> <u>"Franke Model" or similar and approved pressed stainless steel 'drop-in' sinks.:</u> 1 "Quinline Qlx611" 925 x 526 x 172mm Sink with one bowl fitted to counter top (counter top elsewhere measured) No 1 <u>"Franke" or similar approved pressed stainless steel urinal:</u> 2 1250 x 305mm "CB101" Curved back urinal with automatic high level cistern, flush and sparge pipes and hinged domical grating No 4 Carried Forward Section No. 2 Bill No. 15 Plumbing and Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	
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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward				R	
<u>"Vaal or equal and approved"</u>					
3	450 x 450 x 135mm "Tonga XWBOCN16A" white wash hand basin with one tap hole plugs including integrated overflow and chain stay hole, bolted to wall and sealed with silicone sealant where basin meets countertop	No	3		
4	510 x 400mm "Daisy" white vitreous china lavatory wash hand basin (Code: 19VW015) with stand, two tap hole plugs including integrated overflow and chain stay hole, bolted to wall and sealed with silicone sealant where basin meets wall	No	36		
5	"Hibiscus Elite" white 90 vitreous china close coupled wc suite comprising pan with 9 litres low level cistern complete with lid, fitments and purpose-made chromium plated side flush lever and purpose made thermoset seat and cover plate	No	43		
6	"Pearl paraplegic" Vitreous China semi-close coupled suite (Code: 7300SC) comprising 90 degree outlet open rim washdown pan and matching 9 litre cistern complete with lid, fitments and purpose-made chromium plated side flush lever and purpose made thermoset seat and cover plate	No	4		
7	415 x 275 x 315mm "Flatback" white vitreous china wall mounted urinal (Code: 705326) including 38mm chromium plated domical grating (Code: 8787Z0 and chromium plated top inlet spreader (Code: 8543Z0), fixed on and including two hanger brackets (Code: 8127Z0)	No	2		
Carried Forward				R	
Section No. 2 Bill No. 15 Plumbing and Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)					

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>WASTE UNIONS, ETC.</u>				
	<u>"Cobra Watertech" or similar approved:</u>				
8	32mm Basin waste union	No	39		
9	40mm Chrome brass bath / sink waste union with plug.	No	1		
	<u>TRAPS, ETC.</u>				
	<u>'Plumbcrazy' traps or other approved uPVC:</u>				
10	40mm "P" or "S" trap	No	45		
11	40 x 300mm Double bowl sink combination trap.	No	1		
	<u>"Cobra Watertech" or similar approved:</u>				
	<u>TAPS, VALVES, ETC.</u>				
	<u>'Cobra Watertech' or equal and approved:</u>				
12	Wall type sink mixer with aerated swivel outlet and star taps heads (Code: 266/041/10).	No	1		
13	15mm RB stopcock	No	40		
14	15mm Code 211-15CP "Star" pillar tap	No	39		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes:</u>				
15	40mm Pipes	m	32		
16	50mm Pipes	m	17		
17	40mm Pipes fixed to or chased into brickwork	m	74		
18	50mm Pipes fixed to or chased into brickwork	m	42		
19	110mm Pipes fixed to or chased into brickwork	m	112		
	Carried Forward			R	
	Section No. 2 Bill No. 15 Plumbing and Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>Extra over uPVC pipes for fittings:</u>				
20	40mm Bend	No	26		
21	50mm Bend	No	13		
22	40mm Junction	No	53		
23	50mm Junction	No	21		
24	110mm End cap	No	12		
25	110mm Access bent pan connector	No	47		
26	110mm Access bend	No	12		
27	110mm Access junction	No	18		
28	110mm Access bent pan connector	No	47		
29	40mm 'GI Two-way' vent anti-vac valve	No	47		
	<u>Pre-cast concrete gulleys</u>				
30	Gulley not exceeding 500mm deep	No	11		
	<u>Sundries:</u>				
31	Testing waste pipe system		Item		
	<u>WATER AND FIRE SUPPLIES</u>				
	<u>Class 2 copper pipes:</u>				
32	15mm Pipes chased into brick walls	m	6		
33	20mm Pipes chased into brick walls	m	53		
	<u>Extra over class 2 copper and polypropylene pipes for brass compression fittings:</u>				
34	15mm Fittings	No	8		
35	22mm Fittings	No	72		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2				
	Bill No. 15				
	Plumbing and Drainage				
	Tender Bills of Quantities				
	Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No			Quantity	Rate	Amount
	<u>BILL NO. 17</u>				
	<u>ELECTRICAL WORK</u>				
	To be read in conjunction with the Specifications. All products equivalents are to be approved by the Engineer. All Equipment to be SABS and SANS Approved				
	<u>CONDUIT/SLEEVES INSTALLATION (including fixing brackets and accessories)</u>				
	<u>Trenching including backfill and restoration of original surface:</u>				
1	450mm x 500mm deep	m	1 271		
	<u>Supply and install PVC conduit:</u>				
2	25mm Recessed	m	2 700		
3	Conduit box - 60mm round x 25mm deep (4 Way)	No	230		
	<u>Supply and install bosal conduit:</u>				
4	25mm	m	920		
5	Conduit box - 60mm round x 25mm deep (4 Way)	No	92		
	<u>Supply and install sleeves/OL2000 trunking:</u>				
6	OL2000 trunking or other approved equivalent	m	65		
7	OL2000 bends and joints	m	18		
8	50mm Sleeve	m	250		
9	50mm bends and joints	m	35		
10	110mm Sleeve	m	150		
	<u>Electrical manholes (including covers and all Building Work):</u>				
11	Electrical manholes (600 x 600 x 600mm deep)	No	9		
	Carried Forward			R	
	Section No. 2 Bill No. 16 Electrical Work Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
<u>LIGHTING, SMALL POWER AND ACCESSORIES</u>				
<u>Supply and installation of lighting fixtures (Luminaries) including fixing brackets and accessories:</u>				
25	Fluorescent light fitting open 5FT double 2X58W T8 4000k or other approved equivalent	No	220	
26	Regent lighting solution - ODIN 4000K INTERNAL SURFACE MOUNTED LED 16W-IP65 (Surface Mount) or other approved equivalent	No	151	
27	Regent lighting solution - ODIN 4000K EXTERNAL SURFACE MOUNTED LED 16W-IP65 (Surface Mount) or other approved equivalent	No	99	
<u>Supply and installation of lighting power infrastructure including fixing brackets and accessories (PVC):</u>				
28	10A One way 1 lever light switch surface mounted in wall or other approved	No	78	
29	10A One way 2 lever light switch surface mounted in wall or other approved	No	2	
30	Crab tree ablutions motion sensor 2 hour timer or other approved	No	21	
<u>Supply and installation of small power outlets including fixing brackets and accessories (PVC):</u>				
31	<u>16A, 3 Pin, switched double socket outlet (recessed) Euro + SA:</u>	No	74	
32	16A, 3 Pin, switched single socket outlet Installed in power skirting (recessed) Euro + SA	No	90	
33	20A Three Phase Isolator	No	2	
34	10A Three phase isolator	No	2	
35	10A Single phase isolator	No	5	
36	20A Single phase isolator	No	12	
Carried Forward			R	
Section No. 2 Bill No. 16 Electrical Work Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

Brought Forward			R
37	Centurion D6 smart gate motor kit + D6 Smart anti theft bracket plus 2hour battery backup	No	1
<u>Supply and install power skirting including fixing brackets and accessories (PVC-GREY):</u>			
38	2 Compartment aluminium power skirting complete with covers	m	140
39	2 Compartment aluminium power skirting internal bends	No	14
40	2 Compartment power skirting end caps	No	30
41	RJ 11 Terminal	No	90
42	RJ 45 Terminal	No	10
<u>Supply and install ceiling fan including brackets and accessories:</u>			
43	Eurolux F13W Industrial 56" ceiling fan (white) -3 speed fan with wall control or other approved equivalent	No	64
<u>Supply and install photo electric cell including brackets and accessories:</u>			
44	Photo electric cell unit	No	10
Carried Forward			R
Section No. 2 Bill No. 16 Electrical Work Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>ENGINEERED EQUIPMENT</u>				
	<u>LV DISTRIBUTION BOARDS - Supply and installation (colour and dimensions must be confirmed before Manufacture) (To have bottom and top entry) (MCB's to have overload and short circuit protection) (To be in accordance to the latest SANS standards) (All equipment to be labelled with circuit labelled) (Legend Cards to be provided) (TO be of 3CR12 material construction)</u>				
45	Single line diagram layout (Admin LV Switchboard) floor standing board	No	1		
46	Single line diagram layout(DB-Media Centre) recessed in wall	No	1		
47	Single line diagram layout(Nutrition Block) recessed in wall	No	1		
48	Single line diagram layout(DB-Block A,C,E,G) recessed in wall	No	4		
49	Single line diagram layout(DB-Block B,D,F) recessed in wall	No	3		
50	Single line diagram layout(DB1-DB24) recessed in wall	No	24		
51	Single line diagram layout(DB-Guard House) recessed in wall	No	1		
	<u>SCAFFOLDING</u>				
52	Scaffolding		Item		
	<u>EARTHING AND LIGHTNING PROTECTION</u>				
53	Allow the provisional allowance of R320,000.00 (Three hundred thousand rands) for the design and supply and installation of underground earthing and LPS including geotech studies			SUM	
54	Profit on above item			%	
55	Attendance on ditto			%	
	Carried Forward			R	
	Section No. 2 Bill No. 16 Electrical Work Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

Brought Forward		R
<u>ELECTRICITY CONNECTION / UPGRADE</u>		
56	Allow the provisional allowance of R250,000.00 (Two hundred and fifty thousand rands) for the increase in power supply - 200A 3 phase connection, 400V, including service cable, meter box and connection cost. Also includes the relocation of the existing electrical kiosk on site	SUM
57	Profit on above item	%
58	Attendance on ditto	%
<u>DECOMMISSIONING / DEMOLITION AND STORAGE AND SAFE REMOVAL OF SITE TO A REGISTERED DUMP SITE</u>		
59	Decommissioning/demolition/removal to existing buildings - All the existing electrical components cabling, lights, sockets, wiring, distribution boards and other electricals	Item
<u>DOCUMENTATION AND CLOSE OUT</u>		
60	Close-out documentation	Item
<u>GENERATOR SET (Supply and installation)</u>		
61	Outdoor 150 kVA, 400V / 230V 3 phase 4 wire 50 Hz diesel generator with diesel tank to run for 8 hours under emergency (with auto-change over circuit, cable, panel and silent canopy), Outdoor installation with all necessary accessories, including ventilation, cooling, exhaust management, vibration control and security cage with padlocks	Item
Carried Forward to Summary of Section No. 2		R
Section No. 2		
Bill No. 16		
Electrical Work		
Tender Bills of Quantities		
Development Bank of Southern Africa (DBSA)		

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount	
	<u>BILL NO. 18</u>				
	<u>MECHANICAL WORK</u>				
	To be read in conjunction with the Specifications. All products equivalents are to be approved by the Engineer. All Equipment to be SABS and SANS Approved				
	<u>PROVISIONAL SUMS, ETC.</u>				
	<u>Mechanical Engineering Professional Services:</u>				
1	Provide a sum of R 695 900,00 (Six hundred and ninety five thousand and nine hundred rand) for the appointment of a Mechanical Engineer for stages 1 to 6 for all services. Including all operational expenses and disbursements		SUM		
2	Profit on above item		%		
3	Attendance on ditto		%		
	<u>HVAC</u>				
4	Provide a sum of R 555 000,00 (Five hundred and fifty five thousand rand) for the design, supply, installation and guarantee for HVAC. All ventilation and extraction to be performed by a specialist		SUM		
5	Profit on above item		%		
6	Attendance on ditto		%		
	<u>Wet Services</u>				
7	Provide a sum of R 250 000,00 (Two hundred and fifty thousand rand) for the design, supply, installation and guarantee for Wet Services. All specialized work to be carried out by a specialist		SUM		
8	Profit on above item		%		
9	Attendance on ditto		%		
	Carried Forward		R		
	Section No. 2 Bill No. 17 Mechanical Work Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 20</u> <u>PAINTWORK</u> <u>PREPARATORY WORK TO EXISTING WORK</u> <u>Previously painted plastered surfaces</u> Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth <u>Previously painted metal surfaces</u> Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal <u>Previously painted wood surfaces</u> Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth <u>PAINTWORK ETC TO NEW WORK</u> <u>ON FLOATED PLASTER</u> <u>Two coats epoxy paint:</u>			
1	On floors	m2	63	
	<u>Prepare and apply one coat alkali resistant primer and two coats "PVA" emulsion paint for interior use, on:</u>			
2	On internal walls	m2	4 723	
	<u>Prepare and apply one coat alkali resistant primer and two coats "PVA" emulsion paint for interior use, on:</u>			
3	On skimmed ceilings	m2	5	
	Carried Forward			
	Section No. 2 Bill No. 19 Paintwork Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>ON PLASTER BOARD</u>				
	<u>Prepare and apply one coat Primer, one coat alkali based universal undercoat and two coats superior quality universal enamel paint.:</u>				
4	On ceilings and cornices	m2	3 352		
	<u>ON WOOD</u>				
	<u>Stop, sand down and prepare wood surfaces and apply one coat pink wood primer and two coats 'Plascon' velvagio on:</u>				
5	On doors	m2	475		
	<u>Stop, sand down and prepare wood surfaces and apply three coats 'Plascon Woodcare Exterior Wood Dressing' or equal and approved stained oil preservative or equal and approved stained oil on:</u>				
6	On skirting, rails, etc., not exceeding 300 mm girth	m	1 378		
	<u>ON METAL SURFACES</u>				
	<u>Prepare and apply one coat universal undercoat and two coats 'Plascon' superior quality universal enamel paint, on galvanised steel, etc.:</u>				
7	On door frames	m2	121		
	<u>Prepare and apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on galvanised steel, etc.:</u>				
8	On doors	m2	8		
9	On burglar bars, gates (both sides measured) on full flat area	m2	965		
	<u>Prepare and apply one coat alkyd based universal undercoat and one coat superior quality universal enamel paint, on work in sound condition.:</u>				
10	On structural steel members	m2	970		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2				
	Bill No. 19				
	Paintwork				
	Tender Bills of Quantities				
	Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Bill No	SECTION SUMMARY - Building Works	Page No	Amount	
1	Demolitions	51		
2	Earthworks	56		
3	Concrete, Formwork and Reinforcement	60		
4	Masonry	63		
5	Waterproofing	65		
6	Roof Coverings, Claddings, Etc.	67		
7	Carpentry and Joinery	79		
8	Ceilings, Partitions and Access Flooring	81		
9	Floor Coverings, Wall Linings, Etc.	82		
10	Ironmongery	87		
11	Structural Steelwork	89		
12	Metalwork	93		
13	Plastering	94		
14	Tiling	96		
15	Plumbing and Drainage	104		
16	Electrical Work	110		
17	Mechanical Work	112		
18	Glazing	113		
19	Paintwork	115		
Carried to Final Summary			R	
Section No. 2				
Tender Bills of Quantities				
Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>LANDSCAPING</u>			
	NOTE: All Supplementary preambles noted in the preceding sections apply equally to trades and items measured under the entire external works section, unless stated otherwise.			
	<u>Maintenance period:</u>			
	Attention is drawn to the maintenance period prescribed in the specification.			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>SITE CLEARANCE</u>			
	<u>Site clearance, etc.:</u>			
1	Allow for clearing of the site all grass, weeds, shrubs, debris, etc., and cart away all vegetation and stockpile	m2	8 461	
2	Strip average 100mm thick layer of topsoil and stockpile on site	m2	8 461	
	<u>EXCAVATIONS, FILLING, ETC.</u>			
	<u>EXCAVATIONS</u>			
	<u>Open face excavation in all materials other than rock over sloping site:</u>			
3	Reduced levels under floors	m3	427	
	<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
4	Off site to a dumping site to be found by the Contractor	m3	427	
	Carried Forward		R	
	Section No. 3 Bill No. 1 Landscaping Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>FILLING</u>				
	<u>Earth filling Prime Cost of R400.00 per cubic metre supplied by the contractor, temporarily stockpiled on site including haulage approximately 100m from perimeter of stock piles:</u>				
5	100mm Thick sub-base course of G1 material compacted to 98% MOD AASHTO density in 100mm thick layers, under floors with artificial grass, etc.	m3	122		
	<u>Earth filling supplied by the contractor, temporarily stockpiled on site including haulage approximately 100m from perimeter of stock piles:</u>				
6	150mm Thick sub-base course of G7 material compacted to 98% MOD AASHTO density in 150mm thick layers, under floors, aprons, ramps, steps, etc.	m3	305		
	<u>Prescribed density tests on filling:</u>				
7	Modified AASHTO Density test	No	17		
	<u>COMPACTION OF SURFACES</u>				
	<u>Compaction of natural or excavated ground surfaces:</u>				
8	Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 100% of Modified AASHTO density	m2	2 034		
	<u>SOIL POISONING</u>				
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>				
9	Under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming	m2	2 034		
	Carried Forward			R	
	Section No. 3 Bill No. 1 Landscaping Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward				R	
<u>SOFT LANDSCAPING</u>					
<u>Grassing, ground covers, etc.:</u>					
10	Belgotex "Leisure 30 (LC30)" or equal and approved grass roll on lawn, size 4m width, at 30mm pile height, with polyethylene monofilament (straight) and polypropylene monofilament (curled) fibre type, all in accordance with the manufacturer's specification and installation guidelines including maintenance and protection during the acceptance period	m2	811		
<u>Wet pour rubber surfacing:</u>					
11	Minimum 50mm thick compacted depth wet pour laid to falls onto a geotextile membrane (fabric measured elsewhere)	m2	293		
<u>Trees, shrubs, etc.:</u>					
12	Allow an amount of R 50 000.00 (Fifty Thousand Rands) for new trees, shrubs and planters to be planted and selected by a horticulturist/specialist			SUM	
13	Removal and relocation of 8x existing trees, to be replanted and positioned elsewhere (<i>to be confirmed by Architect/Principal Agent</i>)		Item		
<u>Filter fabric, etc.:</u>					
14	Geofabric filter blanket under grass and rubber surface areas including stitching	m2	811		
<u>HARD LANDSCAPING</u>					
<u>Paving of 65mm interlocking concrete paving bricks with butt joints on 25mm thick sand bed (compacted thickness) with sand and cement mixture swept into joints and hosed down:</u>					
15	Corobrick PA Onyx Modular or equal and approved pavers laid in stretcher bond pattern to walkways, etc., to falls	m2	7		
Carried Forward				R	
Section No. 3 Bill No. 1 Landscaping Tender Bills of Quantities Development Bank of Southern Africa (DBSA)					

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>LG Green "GR101" or equal and approved concrete grass blocks with spread coarse sand approximately 20mm thick by means of screed and voids in the blocks filled with a good quality topsoil, fertilizer dressing and sown in "kikuyu" grass seed all in accordance with the engineers specification and manufacturer's instructions:</u> Note: Maintenance is excluded in this Bills of Quantities for the reasons that after the site is handed over this will be for the account of the intended end user				
16	500 x 500 x 115mm High concrete grass blocks to garden areas, etc. to falls	m2	923		
	<u>Benches, tables, etc.:</u>				
17	Concrete seat with chamfer edge 45 degrees, comprising top of 75mm thick steel floated finished slab fixed to single skin face brick walls underside with silicon joint, 50 x 50 x 6mm galvanised angles including double skin face brick wall with concrete capping fixed to top of wall and all necessary earthworks, foundations, etc., all in accordance with the architects specification (<i>Refer to Drawing No. 082-PSS-ND-200</i>)	No	16		
18	Pre cast concrete bench overall size 15 000mm long x 1200mm wide x 400mm high with base, reinforced concrete slab and earthworks all in accordance with the engineer, architects and manufacturer's details and specifications	No	1		
19	Pre cast concrete bench overall size 21 690mm long x 1200mm wide x 400mm high with base, reinforced concrete slab and earthworks all in accordance with the engineer, architects and manufacturer's details and specifications	No	1		
20	Pre cast concrete bench overall size 23 700mm long x 1200mm wide x 400mm high with base, reinforced concrete slab and earthworks all in accordance with the engineer, architects and manufacturer's details and specifications	No	1		
	Carried Forward			R	
	Section No. 3 Bill No. 1 Landscaping Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

Brought Forward				R
21	Pre cast concrete bench overall size 41 000mm long x 1200mm wide x 400mm high with base, reinforced concrete slab and earthworks all in accordance with the engineer, architects and manufacturer's details and specifications	No	1	
<u>SUNDRIES</u>				
<u>Plaque wall:</u>				
22	Allow an amount of R 30 000.00 (Fifteen Thousand Rands) for the construction of a 300 x 13000 x 2400mm High Plaque Wall (in accordance with the Architect's and Engineer's instruction)			SUM
<u>Combo court equipment:</u>				
23	Allow an amount of R 20 000.00 (Fifteen Thousand Rands) for combo court and soccer field sports equipment (to be used in accordance with the Principal Agent's instruction)			SUM
Carried Forward to Summary of Section No. 3				R
Section No. 3				
Bill No. 1				
Landscaping				
Tender Bills of Quantities				
Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>THE FOLLOWING WORK IN COVERED WALKWAYS (ALL TRADES)</u>			
	NOTE: All Supplementary preambles noted in the preceding sections apply equally to trades and items measured under the entire external works section, unless stated otherwise.			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>SITE CLEARANCE</u>			
	<u>Site clearance:</u>			
1	Digging up and removal of rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc., including grubbing up all roots, as required and cart away all vegetation and debris	m2	945	
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	945	
	<u>EXCAVATIONS, FILLING, ETC.</u>			
	<u>EXCAVATIONS</u>			
	<u>Excavation in all materials other than rock not exceeding 2m deep:</u>			
3	Reduced levels under floors	m3	425	
	<u>Extra over excavation other than bulk in all materials for excavation in (on site verification required for payment):</u>			
4	Soft rock	m3	43	
5	Hard rock	m3	21	
	Carried Forward		R	
	Section No. 3 Bill No. 2 Covered Walkways Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>CARTING AWAY OF EXCAVATED MATERIAL</u>				
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
6	Off site to a dumping site to be found by the Contractor	m3	272		
	<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
	<u>Keeping excavations free of water:</u>				
7	Keeping excavations free of all water other than subterranean water		Item		
	<u>FILLING</u>				
	<u>Filling with approved material from the excavations and spread, level, water and compact in 150mm layers to a density of at least 98% Mod.AASHTO maximum density and trim level:</u>				
8	Under floors, pavings, etc.	m3	153		
	<u>LAYER WORKS</u>				
	<u>Earth filling supplied by the contractor, temporarily stockpiled on site including haulage approximately 100m from perimeter of stock piles:</u>				
9	150mm Thick sub-base course of G5 material compacted to 98% MOD AASHTO density in 150mm thick layers, under floors, aprons, ramps, steps, etc.	m3	142		
10	150mm Thick sub-base course of C3 material compacted to 98% MOD AASHTO density in 150mm thick layers, under floors, aprons, ramps, steps, etc.	m3	130		
	Carried Forward			R	
	Section No. 3 Bill No. 2 Covered Walkways Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>COMPACTION OF SURFACES</u>				
	<u>Compaction of natural or excavated ground surfaces:</u>				
11	Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 100% of Modified AASHTO density	m2	944		
	<u>WEED KILLERS, INSECTICIDES, ETC.</u>				
	<u>Approved brand of weed killer mixed and applied in accordance with manufacturer's instruction:</u>				
12	Under floors, pavings, etc.	m2	944		
	<u>TESTS</u>				
	<u>Prescribed density tests on filling:</u>				
13	Modified AASHTO Density test	No	10		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>CONCRETE</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>25 Mpa/19mm Concrete:</u>				
14	Average 500 wide x 240mm deep thickening, including all necessary excavations, cart away, etc.	m3	78		
15	Ramps	m3	9		
	<u>TEST BLOCKS</u>				
	<u>Test blocks:</u>				
16	Making and testing sets of three 150 x 150 x 150 mm concrete strength test cubes (Provisional)	Sets	8		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	Carried Forward			R	
	Section No. 3 Bill No. 2 Covered Walkways Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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Brought Forward				R	
<u>MASONRY</u>					
<u>PAVING</u>					
<u>Paving of 65mm interlocking concrete paving bricks with butt joints on 25mm thick sand bed (compacted thickness) with sand and cement mixture swept into joints and hosed down:</u>					
22	Corobrick PA Onyx Modular or equal and approved pavers laid in stretcher bond pattern to walkways, etc., to falls	m2	870		
<u>PRE-CAST CONCRETE</u>					
<u>Pre cast concrete kerbs and channels including building in, bedding, jointing, pointing, concrete haunching, excavation, backfilling, ramming, etc., complete as indicated:</u>					
23	Barrier kerb (Figure 3) overall size 150 x 300mm high	m	229		
<u>WATERPROOFING</u>					
<u>WATER STOPS, SEALING STRIPS, JOINT SEALANTS, ETC.</u>					
<u>Polystyrene sealing compound including backing cord, bond breaker, primer, etc. including raking out expansion joint filler if necessary:</u>					
24	In 10mm x 10mm movement joints between concrete surfaces	m	40		
Carried Forward				R	
Section No. 3 Bill No. 2 Covered Walkways Tender Bills of Quantities Development Bank of Southern Africa (DBSA)					

Brought Forward				R	
<u>ROOF COVERINGS, CLADDINGS, ETC.</u>					
<u>PROFILED SHEETING OF METAL, FIBRE-CEMENT, PLASTIC, ETC.</u>					
<u>ROOF COVERINGS</u>					
<u>0.55mm Thick "Saflok 700 Rain Cloud Colorplus" or equal and approved interlocking concealed fix roof covering, fixed to timber purlins at 2112mm centres and end-span purlins at 1920mm centres (final spacing to calculated by an engineer) by means of a SL 700 clip 21 clips secured to purlins in combination with a suitable class Safintra approved wafer head self-tapping fasteners and accessories:</u>					
25	Roof covering with pitch not exceeding 25 degrees, in transportable lengths not exceeding 20m	m2	945		
<u>STRUCTURAL STEELWORK</u>					
<u>STEELWORK</u>					
<u>GALVANISED PURLINS, RAILS, FASCIAS, RAFTERS, ETC.</u>					
<u>Purlins and rails bolted to steel:</u>					
26	75 x 50 x 6.0mm Unequal angle section cleats in lengths not exceeding 300mm long, 5.65kg/m	t	0.05		
27	75 x 50 x 20 x 2.0 Lipped channel section purlins, 3.14kg/m bolted to purlin cleats (purlin cleats elsewhere measured) fixed to purlins	t	1.92		
Carried Forward				R	
Section No. 3 Bill No. 2 Covered Walkways Tender Bills of Quantities Development Bank of Southern Africa (DBSA)					

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
<u>STEEL COLUMNS, BEAMS, ROOF TRUSSES, ETC.</u>				
<u>Welded columns in single lengths with flat section base plate, top, bearer and connection plates bolted to beams:</u>				
28	90 x 90 x 3.0mm Square hollow-section columns, 7.95kg/m	t	3.80	
<u>Welded beams in single lengths with flat section bearer and connection plates bolted to steel columns:</u>				
29	90 x 90 x 3.0mm Square hollow-section columns, 7.95kg/m	t	4.14	
<u>Bolts to columns, etc.:</u>				
30	12mm Diameter chemical anchor	No	317	
<u>Sundries:</u>				
31	20mm Cement non-shrink grouting under steel columns	m2	5	
<u>Welded bracing, etc.:</u>				
32	50 x 50 x 5mm Angle section horizontal bracing, 3.77kg/m (Provisional)	t	0.63	
<u>STEEL HANDRAILS, BALUSTRADING, ETC</u>				
<u>The following in zinc chromate primed steel balustrading as described</u>				
<u>Mentis inter-link ball type or equal and approved tubular railing system:</u>				
33	50.8mm Diameter 316 S/S Ball type tubular welded vertical posts (1000mm high) with one end fixed in concrete including 16mm dia. epoxy stud with post covers, baseplate, screws, rubber ends plugs, etc. (Refer to Engineer's Typical Ramp Detail)	m	54	
Carried Forward			R	
Section No. 3 Bill No. 2 Covered Walkways Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
34	50.8mm Diameter 316 S/S Ball type tubular welded top rail with one end fixed in vertical posts including, screws, rubber ends plugs, etc. (<i>Refer to Engineer's Typical Ramp Detail</i>)	m	65		
35	50.8mm Diameter 316 S/S round tubing hand rail fixed in vertical posts including, screws, rubber ends plugs, etc. (<i>Refer to Engineer's Typical Ramp Detail</i>)	m	33		
36	15.88mm Diameter 316 S/S Ball type tubular welded infill rails fixed horizontally in between vertical posts at max. 100mm gap including screws, rubber ends plugs, etc. (<i>Refer to Engineer's Typical Ramp Detail</i>)	m	489		
<u>PAINTWORK</u>					
<u>ON METAL SURFACES</u>					
<u>Prepare and apply two coats zinc chromate based universal undercoat and two coats alkyd superior quality universal enamel paint or similar and approved to exposed structural steel members:</u>					
37	On structural steel members	m2	813		
Carried Forward to Summary of Section No. 3				R	
Section No. 3					
Bill No. 2					
Covered Walkways					
Tender Bills of Quantities					
Development Bank of Southern Africa (DBSA)					

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>ROADWORK</u>			
	NOTE: All Supplementary preambles noted in the preceding sections apply equally to trades and items measured under the entire external works section, unless stated otherwise.			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>SITE CLEARANCE</u>			
	<u>Site clearance:</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	4 184	
	<u>EXCAVATIONS, FILLING, ETC.</u>			
	<u>EXCAVATIONS</u>			
	<u>Open face excavation over sloping site:</u>			
2	Open face excavation to form platform under parking areas, etc., and depositing excavated material over site including haulage not exceeding 1km from perimeter of excavations	m3	1 238	
	<u>Extra over bulk excavation in earth for excavation in</u>			
3	Soft rock	m3	122	
4	Hard rock	m3	61	
	<u>Extra over bulk excavation in earth for breaking up and removing</u>			
5	Brickwork	m3	31	
6	Unreinforced concrete	m3	31	
7	Reinforced concrete	m3	31	
	Carried Forward		R	
	Section No. 3 Bill No. 3 Roadwork and Parking Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>				
<u>Extra over all excavations for carting away:</u>				
8	Surplus material from stock piles on site to a dumping site to be located by the contractor	m3	1 238	
<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
<u>Keeping excavations free of water:</u>				
9	Keeping excavations free of all water other than subterranean water		Item	
<u>FILLING</u>				
<u>Earth filling supplied by the contractor under pavings, etc.:</u>				
10	Over site of G2 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density	m3	626	
11	Over site of C4 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density	m3	612	
<u>COMPACTION OF SURFACES</u>				
<u>Compaction of surfaces:</u>				
12	Compaction of ground surface under parking areas, etc., by wetting and compacting with 6-8 passes of a 8-10 ton vibratory roller	m2	4 176	
<u>WEED KILLERS, INSECTICIDES, ETC.</u>				
<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>				
13	Under floors, etc.	m2	4 176	
Carried Forward			R	
Section No. 3 Bill No. 3 Roadwork and Parking Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

Brought Forward			R	
<u>TESTS</u>				
<u>Prescribed density tests on filling:</u>				
14	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	34	
<u>ROADWORK, PARKING AREAS, ETC.</u>				
<u>Bituminous premix road surfacing</u>				
15	40mm Thick continually graded asphalt to parking areas, roadways, etc., compacted to 93% MTRD	m2	4 080	
<u>Pre cast concrete finished smooth on exposed surfaces including building in, bedding, jointing, pointing, concrete haunching, excavation, backfilling, ramming, etc. complete as indicated</u>				
16	Kerb (Fig 6) overall size 125 x 230mm high	m	424	
<u>Approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>				
17	12 x 12mm In expansion joints including raking out expansion joint filler as necessary	m	193	
<u>SUNDRIES</u>				
<u>Galvanised carport kit or equal and approved:</u>				
18	Allow an amount of R 290 000.00 (Two Hundred and Ninety Thousand Rands) for the covered carports kit, 414m2 area, including 175 x 50 x 20 x 2 lipped channel frame, 100 x 50 x 20 x 2 lipped channel purlins, 76 x 76 x 2 square tubing posts with pole caps all pre-cut and pre-drilled, 25 x 25 x 1.6 square tubing cross member, 0.55mm Thick "Saflok 700 Rain Cloud Colorplus" roof sheets, PVC gutter system, all bolts, nuts, screws, washers, etc., with 6 bags ready mix, all in accordance with the engineer and manufacturer's instructions or specifications			SUM
19	Profit on above item			%
20	Attendance on ditto			%
Carried Forward			R	
Section No. 3 Bill No. 3 Roadwork and Parking Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>STORMWATER DRAINAGE</u>			
	NOTE: All Supplementary preambles noted in the preceding sections apply equally to trades and items measured under the entire external works section, unless stated otherwise.			
	<u>CONCRETE STORMWATER CHANNELS</u>			
	<u>EXCAVATIONS, FILLING, ETC.</u>			
	<u>EXCAVATIONS</u>			
1	Excavation not exceeding 2m deep for channels	m3	96	
	<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
2	Off site to a dumping site to be found by the Contractor	m3	96	
	<u>RISK OF COLLAPSE OF EXCAVATIONS OTHER THAN BULK</u>			
3	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	321	
	<u>COMPACTION OF SURFACES</u>			
	<u>Compaction of natural or excavated ground surfaces:</u>			
4	Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 100% of Modified AASHTO density	m2	642	
	Carried Forward		R	
	Section No. 3 Bill No. 4 Stormwater Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>WEED KILLERS, INSECTICIDES, ETC.</u>				
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>				
5	To bottoms and sides of trenches, etc.	m2	964		
	<u>CONCRETE</u>				
	<u>REINFORCED CONCRETE</u>				
6	20MPa/19mm reinforced concrete in bottoms and sides of channels	m3	96		
	<u>CONCRETE SUNDRIES</u>				
7	Finishing bottoms of channels smooth with a steel trowel to falls	m2	642		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
	<u>Rough formwork to sides:</u>				
8	To sides of channels	m2	321		
	<u>TESTS</u>				
	<u>Test blocks:</u>				
9	Making and testing sets of three 150 x 150 x 150 mm concrete strength test cubes (Provisional)	Sets	16.6		
	<u>MOVEMENT JOINTS, ETC.</u>				
10	10mm Expansion joints with approved soft board between concrete bottoms of channels not exceeding 300mm high	m	1 071		
11	10mm Expansion joints with approved soft board between concrete sides of channels not exceeding 300mm wide	m	714		
	Carried Forward			R	
	Section No. 3 Bill No. 4 Stormwater Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>THE FOLLOWING WORK IN STORMWATER SOAKAWAY</u>				
	<u>EARTHWORKS (PROVISIONAL)</u>				
	<u>EXCAVATIONS, FILLING, ETC.</u>				
	<u>Excavation in all materials other than rock not exceeding 2m deep:</u>				
14	Trenches	m3	13		
15	Holes	m3	235		
	<u>Extra over excavation other than bulk in all materials for excavation in (on-site verification required for payment):</u>				
16	Soft rock	m3	24		
17	Hard rock	m3	12		
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod AASHTO density:</u>				
18	Exceeding 1.5m and not exceeding 3m deep for placing and removing formwork to walls etc., and building brick lining, 500mm away from excavated face	m2	257		
	<u>Risk of collapse of excavations:</u>				
19	Sides of bulk excavations exceeding 1,5m deep from natural ground level	m2	87		
	<u>CARTING AWAY</u>				
	<u>Extra over all excavations for carting away:</u>				
20	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor	m3	248		
	Carried Forward			R	
	Section No. 3 Bill No. 4 Stormwater Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>EARTH FILLING, ETC.</u>				
	<u>Coarse river sand filling compacted to 100% Mod. AASHTO maximum density:</u>				
21	Under floors, etc.	m3	18		
	<u>Rubble filling to 100mm thickness:</u>				
22	Bottom of soakaway	m3	11		
	<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
	<u>Keeping excavations free of water:</u>				
23	Keeping excavations free of water other than subterranean water		Item		
	<u>FILTER FABRIC</u>				
	<u>Bidim A2 (U14) Geotextile Membrane:</u>				
24	Vertically behind soakaway external walls	m2	222		
	<u>SOIL POISONING</u>				
	<u>Approved brand of weed killer mixed and applied in accordance with manufacturer's instruction:</u>				
25	Under floors and pavings, etc.	m2	162		
	<u>COMPACTION OF SURFACES</u>				
	<u>Compaction of surfaces:</u>				
26	Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 98% of Modified AASHTO density	m2	162		
	Carried Forward			R	
	Section No. 3 Bill No. 4 Stormwater Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R	
<u>TESTS</u>				
<u>Prescribed density tests on filling:</u>				
27	Modified AASHTO Density test	No	2	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>UNREINFORCED CONCRETE</u>				
<u>25 Mpa/19mm Concrete:</u>				
28	Strip footings	m3	13	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
<u>Rough formwork to sides:</u>				
29	Strip footings	m2	87	
<u>TESTS</u>				
<u>Test blocks:</u>				
30	Making and testing sets of three 150 x 150 x 150 mm concrete strength test cubes (Provisional)	Sets	3.0	
<u>Sundries:</u>				
31	Soakaway inlet pipe	No	11	
<u>Cast iron gratings, covers, etc.:</u>				
32	1200 x 1200mm Pre cast concrete cover for stormwater catchpit	No	88	
33	Lifting key for manhole cover (To be handed over to employer upon completion)	No	1	
Carried Forward			R	
Section No. 3 Bill No. 4 Stormwater Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
	<u>MASONRY</u>				
	<u>BLOCKWORK</u>				
	<u>Blockwork in class II mortar:</u>				
34	150mm Thick walls	m2	432		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement (Provisional):</u>				
35	150mm Wide reinforcement built in horizontally	m	572		
	<u>THE FOLLOWING WORK IN BERM CONSTRUCTION</u>				
	<u>SOFT LANDSCAPING</u>				
	<u>Site clearance:</u>				
36	Stripping average 200mm thick layer of top soil and stockpiling on site	m2	169		
	<u>Filling with approved material from the excavations and spread, level, water and compact in 150mm layers to a density of at least 93% Mod.AASHTO maximum and trim level:</u>				
37	Under floors, pavings, etc.	m3	34		
	<u>Compaction of natural or excavated ground surfaces:</u>				
38	Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 100% of Modified AASHTO density	m2	169		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>				
39	Under floors, etc.	m2	169		
	Carried Forward			R	
	Section No. 3 Bill No. 4 Stormwater Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>THE FOLLOWING WORK IN WATER SUPPLY (ALL TRADES)</u>			
	NOTE: All Supplementary preambles noted in the preceding sections apply equally to trades and items measured under the entire external works section, unless stated otherwise.			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>WATER SUPPLIES (DOMESTIC AND FIRE)</u>			
	<u>Class 9 uPVC pressure pipes with rubber ring joints:</u>			
1	75mm Pipes laid in and including trenches not exceeding 1m deep	m	208	
2	75mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	52	
	<u>Extra over class 9 uPVC pressure pipes for uPVC pressure fittings with rubber rings:</u>			
3	75mm bend	No	7	
4	75mm Tee	No	4	
5	75mm End cap	No	3	
6	160 x 75mm Reducing junction	No	3	
	<u>Sundries:</u>			
7	SABS type 3A cast iron meter or valve box including brick chamber below not exceeding 1000mm deep internally	No	1	
8	Unreinforced concrete thrust blocks in trenches at bends, tees, etc. including extra excavation, formwork, etc.	m3	1	
9	75mm Valve	No	1	
	Carried Forward		R	
	Section No. 3 Bill No. 6 Bulk Water Supply Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Brought Forward			R		
10	"Meinecke Cosmos WPD" or similar and approved water meter to the engineer's specification	No	1		
	<u>Municipal connection:</u>				
11	Municipal connection		Item		
	<u>Testing:</u>				
12	Testing water pipe system		Item		
	<u>FIRE APPLIANCES, ETC.</u>				
	<u>Fire hydrants:</u>				
13	100mm Diameter 2500 KPa pressure gauge syphon and stopcock, including tapped hole in steel pipe	No	3		
14	75 x 65mm Brass double lug tamper proof hydrant valve with cap and chain	No	3		
15	Galvanised socket suitable for 75mm diameter steel pipe	No	3		
16	75mm Galvanised vertical steel pipe cast in concrete	m	6		
17	75mm Diameter galvanised steel 90 degrees long radius	No	3		
18	110 x 75mm steel galvanised iron tee reducer	No	3		
19	65mm Diameter Male quick delivery hose	No	3		
	<u>Fire hydrant pedestals:</u>				
20	Unreinforced concrete hydrant pedestal 1100mm high, cast around vertical pipe with bottom 400mm below ground, 300 x 300mm square at base and tapering to 190 x 190mm overall octagonal shaped top, including mass concrete base, excavation, formwork and two coats of paint to exposed surfaces	No	3		
Carried Forward to Summary of Section No. 3				R	
Section No. 3					
Bill No. 6					
Bulk Water Supply					
Tender Bills of Quantities					
Development Bank of Southern Africa (DBSA)					

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>SOIL DRAINAGE</u>			
	NOTE: All Supplementary preambles noted in the preceding sections apply equally to trades and items measured under the entire external works section, unless stated otherwise.			
	<u>THE FOLLOWING WORK IN SOIL DRAINAGE (ALL TRADES)</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>Class 34 Corflo uPVC pipes:</u>			
1	160mm Pipes laid vertically or ramped to backdrops, rodding eyes, etc. (no excavations) m	19		
2	160mm Pipes laid in and including trenches not exceeding 1000mm deep m	266		
3	160mm Pipes laid in and including trenches exceeding 1000mm and not exceeding 2000mm deep m	95		
	<u>Extra over excavation other than bulk in all materials for excavation in (on-site verification required for payment):</u>			
4	Soft rock m3	14		
5	Hard rock m3	7		
	<u>Extra over class 34 Corflo uPVC pipes for fittings:</u>			
6	160mm Bend No	4		
7	160mm Junction No	8		
8	160 x 75mm Reducing junction No	3		
9	160mm Access bend No	5		
10	160mm Access junction No	5		
	Carried Forward		R	
	Section No. 3 Bill No. 7 Soil Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward			R	
11	160mm Access reducing junction	No	3		
12	160mm Access double junction	No	3		
13	160mm Rodding eye including cover plate, unreinforced concrete surround, etc.	No	5		
14	160mm Inspection chamber including cover plate, unreinforced concrete surround, etc.	No	4		
	<u>Sumps, catch pits, inspection chambers, etc. (gratings and covers elsewhere):</u>				
15	Pre cast concrete inspection chamber 1000mm internal diameter exceeding 1000m but not exceeding 1500mm deep internally, complete to the engineer's specifications and approval	No	4		
16	Pre cast concrete inspection chamber 1000mm internal diameter exceeding 2000m but not exceeding 2500mm deep internally, complete to the engineer's specifications and approval	No	3		
	<u>Covers, etc.:</u>				
17	1000mm Diameter 150mm thick pre cast concrete removable cover	No	7		
18	Lifting key for manhole cover (to be handed over to employer upon completion)	No	1		
	<u>Pipe connections:</u>				
19	Excavate to expose and break into side of existing manhole, break through side into manhole for new 110mm uPVC pipe connection, including changing benching, etc., to accommodate new connection	No	7		
	<u>Encasing pipes in concrete:</u>				
20	15MPa/19mm Unreinforced concrete encasing minimum 200mm thick all round 110mm pipes (pipes elsewhere measured) including any additional excavation, formwork, etc.	m	8		
	Carried Forward			R	
	Section No. 3 Bill No. 7 Soil Drainage Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

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**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Bill No	<u>SECTION SUMMARY - External Work</u>	Page No		Amount	
1	Landscaping	121			
2	Covered Walkways	129			
3	Roadwork and Parking	134			
4	Stormwater Drainage	142			
5	Fencing	143			
6	Bulk Water Supply	145			
7	Soil Drainage	148			
	Carried to Final Summary		R		
	Section No. 3 Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u> <u>BILL NO. 1</u> <u>ALTERATIONS</u> <u>SUPPLEMENTARY PREAMBLES</u> Reference is made to the attached drawings for ease of reference and this should not be construed as lessening the necessity nor relieving the bidder of the responsibility of visiting the site, as it is a compulsory requirement with this bid - Drawing No. 3.124, Rev E01 - Level 11 Existing and Demolition Plan (illustrating the extent or position of the proposed structures to be demolished) - Drawing No. 3.126, Rev E01 - Level 12 Existing and Demolition Plan (illustrating the extent or position of the proposed structures to be demolished) <u>Alterations</u> In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building. The contractor shall ensure the stability of all structures during alteration work Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Principal Agent if any disconnection or alterations become necessary The contractor shall take all precautions necessary to prevent any nuisance from dust whilst carrying out the work			
	Carried Forward		R	
	Section No. 4 Bill No. 1 Alterations Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

**Phase 1 - Demolitions of Existing Structures and
Construction of New School at
Popano Secondary School**

	Brought Forward <u>Materials from the alterations, credit, etc.</u> Materials recovered from the alterations (except where described as to be re-used or to be handed over to the employer) will become the property of the contractor who may allow credit in respect of thereof where provided for in the bills of quantities. Such materials shall not be re-used in new work without written permission from the Principal Agent Materials described as "removed" shall be removed from the site immediately Materials described as "handed over to the Employer" shall be carefully dismantled where necessary, neatly stored under cover on the site where directed and protected from damage, until required Materials described as "set aside for re-use" shall be carefully dismantled where necessary, cleaned, neatly stored under cover and protected from damage until required for re-use. Any damage caused to such materials during removal, storage or re-fixing shall be made good at the Contractor's expense <u>Disposal of debris, etc.</u> The Contractor shall be responsible for the removal from the site of all materials, debris and rubbish resulting from the alterations <u>Making good damaged work</u> The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing		R	
	Carried Forward Section No. 4 Bill No. 1 Alterations Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R	
	<u>Forming new openings or altering opening in existing walls</u> Where new openings are formed or openings altered in existing walls, the wall above the opening shall be broken out and new brick, in situ concrete or pre stressed concrete lintel inserted, complete with all necessary reinforcement , formwork, turning piece, etc., the jambs and portions of openings as described shall be built up with new brickwork or block work properly toothed and bonded to existing, cavities of hollow walls shall be closed where necessary and finishes shall be made good all around and into reveals <u>Building up openings</u> Where existing openings are given in number as built up, the existing surfaces all round shall be prepared as necessary, brickwork or block work properly toothed and bonded to existing, wedged up to underside of existing lintel and finishes shall be made good on both sides <u>MAKING GOOD OF THE EXISTING BLOCK B (LABORATORIES), ETC.</u> <u>Making good external, rainwater goods, walkways, glazing, masonry, carpentry and joinery, ceilings, paintwork, plumbing and drainage, doors and windows including ironmongery, roof structure and covering, etc.:</u>			
1	Allow an amount of R 500 000.00 (Five Hundred Thousand Rands) for repairs on the existing Block B - Laboratories (to be used in accordance with the Principal Agent's instruction)		SUM	
	Carried to Final Summary		R	
	Section No. 4 Bill No. 1 Alterations Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>BUDGETARY ALLOWANCES</u>			
<u>SKILLS DEVELOPMENT</u>			
1	Provide an amount of R 800 000.00 (Eight Hundred Thousand Rands) for Skills Development and Mentorship of Candidates for the duration of the project to be utilized as instructed by Principal Agent	SUM	
2	Attendance on ditto	%	
<u>ELECTRICAL ENGINEERING SERVICES</u>			
3	Provide an amount of R 790 000.00 (Seven Hundred and Ninety Nine Thousand Rands) for Electrical Engineering Services (Stage 1 - 6) for the duration of the project to be utilized as instructed by Principal Agent	SUM	
4	Attendance on ditto	%	
<u>SOCIAL FACILITATION SERVICES</u>			
5	Provide an amount of R 500 000.00 (Five Hundred Thousand Rands) for Social Facilitation Services for the duration of the project to be utilized as instructed by Principal Agent	SUM	
6	Attendance on ditto	%	
<u>PROVISIONAL SUMS, ETC.</u>			
<u>SIGNAGE</u>			
<u>Supply and installation of signage:</u>			
7	Provide the amount of 10, 000.00 (Ten Thousand Rands) for Signage	SUM	
8	Profit on above item	%	
9	Attendance on ditto	%	
<u>METALWORK</u>			
Carried Forward			R
Section No. 5 Bill No. 1 Provisional Sums Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

	Brought Forward		R	
	<u>Supply and installation of mesh steel grade over ceilings (Computer rooms):</u>			
10	Provide the amount of R 240, 000.00 (Two Hundred and Forty Thousand Rands) for mesh steel grade over ceilings (computer rooms)		SUM	
11	Profit on above item		%	
12	Attendance on ditto		%	
	<u>BOOSTER PUMPS</u>			
	<u>Supply and installation of booster pump:</u>			
13	Provide the amount of R 12 000.00 (Twelve Thousand Rands) for supply and installation of booster pump		SUM	
14	Profit on above item		%	
15	Attendance on ditto		%	
	Carried Forward		R	
Section No. 5 Bill No. 1 Provisional Sums Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				

Phase 1 - Demolitions of Existing Structures and Construction of New School School at Popano Secondary School

Brought Forward		R
<u>GREASE TRAP & FLOOR DRAINS</u>		
<u>Supply and installation of grease traps and floor drains:</u>		
16	Provide the amount of R 10,000.00 (Ten Thousand Rands) for supply and installation of grease traps and floor drains	SUM
17	Profit on above item	%
18	Attendance on ditto	%
<u>GAS STORAGE AND BOTTLES</u>		
<u>Supply and installation of industrial gas burners and bottle store lockable gas:</u>		
19	Provide the amount of R 50,000.00 (Fifty Thousand Rands) for supply and installation of gas storage and bottles	SUM
20	Profit on above item	%
21	Attendance on ditto	%
<u>WATER STORAGE TANK</u>		
<u>Supply and installation of water storage tank and stand:</u>		
22	Provide the amount of R 200 000.00 (Two Hundred Thousand Rands) for supply and installation of water storage tank complete with elevated stand (all to the specification and approval of the engineer)	SUM
23	Profit on above item	%
24	Attendance on ditto	%
Carried to Final Summary		R
Section No. 5 Bill No. 1 Provisional Sums Tender Bills of Quantities Development Bank of Southern Africa (DBSA)		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u> <u>OCCUPATIONAL HEALTH AND SAFETY</u> <u>PRELIMINARIES</u> <u>Part 1 General</u> The contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (a copy of the relevant specification has been annexed to this tender) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification. <u>1.1 Construction Health and Safety Officer (CHSO):</u> 1 Allow for the appointment of a full time construction Health and Safety Officer for the entire duration of the contract. Month 20 <u>1.2 Compliance with the Occupational Health and Safety Act, Act 85 of 1993-Health and Safety Plan:</u> 2 Allow for the preparation and submission for approval of the health & safety plan, which will comply in full with the OHS Act requirements as detailed in the Specification. SUM <u>1.3 Compliance with the Occupational Health and Safety Act, Act 85 of 1993, Implementing the Health and Safety Plan:</u> 3 Allow for the implementation for the duration of the construction period of the health & safety plan, which will comply in full with the OHS Act requirements as detailed in the Specification. Month 20 4 Allowance for implementation during the defects liability period if required. SUM Carried Forward Section No. 6 Bill No. 1 Occupational Health and Safety Tender Bills of Quantities Development Bank of Southern Africa (DBSA)			
			R	

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

	Brought Forward		R		
5	Allowance for an additional implementation during the additional defects / liability period, which may be instructed at the discretion of the Employer if required.		SUM		
	<u>1.4 Emergency and rescue measures:</u>				
6	Allow for the provision and maintenance of a complete set of first aid kit for use by an appropriately trained and appointed first aid personnel.		SUM		
7	Allow for the provision and maintenance of an adequate number of SABS approved fire extinguishers.		SUM		
	<u>1.5 General Signage and site health and safety information board:</u>				
8	Safety signage in the workplace to ensure the workers and the public are aware about safety within the environment of the project.		SUM		
	<u>1.6 Personal Protective Clothing:</u>				
9	Provide, maintain and replace any damage personal protective equipment as per specification to all employees.		SUM		
10	Provide, maintain and replace any damage; the following personal protective equipment during the construction period (Minimum 10 Numbers/pairs for visitors only).		SUM		
	<u>1.7 Training:</u>				
	Allow for conducting briefings and induction course to each worker and any related courses that required for the entire project.				
11	Site induction for all personnel and visitors		SUM		
12	Specific job related OHS training.		SUM		
	<u>1.8 Medicals:</u>				
13	Cause all employees to be medically evaluated for their fitness to work on a construction site.		SUM		
	Carried to Final Summary		R		
	Section No. 6				
	Bill No. 1				
	Occupational Health and Safety				
	Tender Bills of Quantities				
	Development Bank of Southern Africa (DBSA)				

**Phase 1 - Demolitions of Existing Structures and
Construction of New School School at
Popano Secondary School**

Section No	<u>FINAL SUMMARY</u>	Page No		Amount	
1	Preliminaries	46			
2	Building Works	116			
3	External Work	149			
4	Existing Block B	152			
5	Provisional Sums	155			
6	Occupational Health and Safety	157			
	Sub Total		R		
	Allowance of R30 000.00 (Thirty Thousand Rands) for the members of the steering Committee on seating on the Site Meeting for the duration of the project		SUM		
	Sub Total		R		
	Provide the amount of R 2 700 000.00 (Two Million, Seven Hundred Thousand Rands) for Contract Price Adjustment Provisions (CPAP) as indicated in the Preliminaries Bill to be used in terms of the Principal Building Agreement		SUM		
	Sub Total		R		
	Allow a contingency amount of R 2 500 000.00 (Two Million, Five Hundred Thousand Rands) to be used as directed by the Principal Agent		SUM		
	Sub Total		R		
	Value Added Tax @ 15%		R		
	Carried to Form of Tender		R		
	Tender Bills of Quantities Development Bank of Southern Africa (DBSA)				