

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1 - PRELIMINARIES</u> <u>BILL NO. 1</u> <u>PRELIMINARIES</u> <u>BUILDING AGREEMENT AND PRELIMINARIES</u> The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0 - reprint 1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities Contractors are referred to the abovementioned documents for the intent and meaning of each clause thereof These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents Where any item is not relevant to this specific agreement such item is marked N/A (signifying "not applicable") Carried Forward			
			R	

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PREAMBLES FOR TRADES

The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained

Supplementary preambles are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles

The **contractor's** prices for all items throughout these **bills of quantities** must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles

PRICING OF PRELIMINARIES

Should the **contractor** select Option A in terms of subclause 3.2.1 in the **Contract Data - Contractor to Employer (CE)** for the purpose of adjustment of these **preliminaries**, the amount entered into the amount column in these **preliminaries** is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)

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SECTION NO.1 - PRELIMINARIES
Bill No. 1
Preliminaries
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)

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Brought Forward			R
A	<u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>		
	<u>Definitions (A1)</u>		
	Clause 1.0 - Definitions and interpretation		
	The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1]		
B	F:..... V:..... T:.....	Item	
	<u>Objective and preparation (A2 - A14)</u>		
	Clause 2.0 - Offer acceptance and performance obligations		
	F:..... V:..... T:.....	Item	
C	Clause 3.0 - Documents		
	Refer to Annexure A for a list of the contract drawings		
	Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) [3.5]		
	The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9]		
D	F:..... V:..... T:.....	Item	
	Clause 4.0 - Design responsibility	Item	
	F:..... V:..... T:.....		
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A	Clause 5.0 - Employer's agents F:..... V:..... T:.....	Item		
B	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item		
C	Clause 7.0 - Compliance with laws and regulations Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works 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 reasonable provisions of the aforementioned health and safety specification [7.1] F:..... V:..... T:.....	Item		
D	Clause 8.0 - Works risk F:..... V:..... T:.....	Item		
E	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item		

F	Clause 10.0 - General insurances F:..... V:..... T:..... Carried Forward Section No. 1 SECTION NO.1 - PRELIMINARIES Bill No. 1 Preliminaries JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)	Item	R
Brought Forward A			
Clause 11.0 - Special insurances F:..... V:..... T:.....		Item	R
B		Item	R
Clause 12.0 - Effecting insurances F:..... V:..... T:.....		Item	R
C		Item	R
Clause 13.0 - Assignment F:..... V:..... T:.....		Item	R
D		Item	R
Clause 14.0 - Security F:..... V:..... T:.....		Item	R
E <u>Execution (A15 - A23)</u> Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....		Item	R

F	Clause 16.0 - Site and access Certain areas will be occupied during the construction period and the contractor must execute the works with as little noise and disturbance as possible to the occupants. [16.6] F:..... V:..... T:.....	Item		
G	Clause 17.0 - Contract instructions F:..... V:..... T:..... Carried Forward	Item		
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	Brought Forward			R
A				
	Clause 18.0 -Setting out of the works The contractor shall notify the principal agent if any encroachment of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1] F:..... V:..... T:.....	Item		
B	Clause 19.0 - Temporary works and plant Clause 19.1.1 - Enclosure of the works F:..... V:..... T:.....	Item		

C	Clause 19.1.2 - Office accommodation - provide suitable office accommodation for site meetings with tables and chairs for ten people F:..... V:..... T:.....	Item	
D	Clause 20.0 - Nominated subcontractors Refer to the provisions on general attendance hereinafter F:..... V:..... T:.....	Item	
E	Clause 21.0 - Selected subcontractors General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work F:..... V:..... T:..... Carried Forward Section No. 1 SECTION NO.1 - PRELIMINARIES Bill No. 1 Preliminaries JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)	Item	
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A	Clause 22.0 - Employer's direct contractors F:..... V:..... T:.....	Item	
B	Clause 23.0 - Contractor's domestic subcontractors F:..... V:..... T:.....	Item	

C	<u>Completion (A24 - A30)</u> Clause 24.0 - Practical completion F:..... V:..... T:.....	Item	
D	Clause 25.0 - Works completion F:..... V:..... T:.....	Item	
E	Clause 26.0 - Final completion F:..... V:..... T:.....	Item	
F	Clause 27.0 - Latent defects liability period F:..... V:..... T:.....	Item	
G	Clause 28.0 - Sectional completion F:..... V:..... T:.....	Item	
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A	Clause 29.0 - Revision of date for practical completion The removal and replacement of materials and/or workmanship which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3) F:..... V:..... T:.....	Item		
B	Clause 30.0 - Penalty for late or non-completion: 0.05% of the Contract Amount inclusive of Value Added Tax per Calendar day F:..... V:..... T:.....	Item		
C	<u>Payment (A31 - A35)</u> Clause 31.0 - Interim payment Materials and goods stored off site shall not be included in the amount authorised for payment [31.6.5] F:..... V:..... T:.....	Item		
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A	Clause 32.0 - Adjustment to the contract value - NOT APPLICABLE All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [32.13] Where prices are submitted by the contractor or n/s subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the agreement and notwithstanding the fact that such prices may be used in an interim payment certificate there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing The contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims for loss of profit shall not be entertained [32.2] F:..... V:..... T:.....	N/A		
B	Clause 33.0 - Recovery of expense and loss F:..... V:..... T:.....	Item		
C	Clause 34.0 - Final account and final payment F:..... V:..... T:.....	Item		
D	Clause 35.0 - Payment to other parties F:..... V:..... T:.....	Item		

E	<u>Termination (A36 - A39)</u> Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:..... Carried Forward Section No. 1 SECTION NO.1 - PRELIMINARIES Bill No. 1 Preliminaries JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)	Item		
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A	Clause 37.0 - Termination by employer - loss and damage F:..... V:..... T:.....	Item		
B	Clause 38.0 - Termination by contractor - employer's default F:..... V:..... T:.....	Item		
C	Clause 39.0 - Termination - cessation of the works F:..... V:..... T:.....	Item		
D	<u>Dispute (A40)</u> Clause 40.0 - Settlement of disputes F:..... V:..... T:.....	Item		

E	<u>Contract variables (A41 - A42)</u> Clause 41.0 - Post tender provisions The contractor is to complete and submit with his tender the JBCC Principal Building Agreement Contract Data CE F:..... V:..... T:.....	Item	R
F	Clause 42.0 - Contractual agreement The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:..... Carried Forward	Item	
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A	Brought Forward <u>SECTION B: PRELIMINARIES</u> <u>Definitions and interpretation (B1)</u> Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item	R
B	<u>Documents (B2)</u> Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item	

C	Clause 2.2 - Provisional bills of quantities F:..... V:..... T:.....	Item	
D	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:.....	Item	
E	<u>Previous work and adjoining properties (B3)</u> Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
F	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
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A	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item	

	<u>Samples, shop drawings and manufacturer's instructions (B4)</u>			
B	Clause 4.1 - Samples of materials F:..... V:..... T:.....	Item		
C	Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item		
D	Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item		
E	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
F	<u>Deposits and fees (B5)</u> Clause 5.1 - Deposits and fees F:..... V:..... T:.....	Item		
G	<u>Temporary services (B6)</u> Clause 6.1 - Water F:..... V:..... T:.....	Item		
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A	Clause 6.2 - Electricity F:..... V:..... T:.....	Item	
B	Clause 6.3 - Telecommunication facilities F:..... V:..... T:.....	Item	
C	Clause 6.4 - Ablution facilities F:..... V:..... T:.....	Item	
D	<u>Prime cost amounts (B7)</u> Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item	
E	<u>Special attendance on n/s subcontractors (B8)</u> Clause 8.1 - Special attendance F:..... V:..... T:.....	Item	
F	<u>General (B9)</u> Clause 9.1 - Protection of the works F:..... V:..... T:.....	Item	
G	Clause 9.2 - Protection/isolation of existing/ occupied works Certain areas of the site will be occupied during the construction period (see item 4 page 14) F:..... V:..... T:.....	Item	
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A	Clause 9.3 - Security of the works F:..... V:..... T:.....	Item		
B	Clause 9.4 - Notice before covering work F:..... V:..... T:.....	Item		
C	Clause 9.5 - Disturbance F:..... V:..... T:.....	Item		
D	Clause 9.6 - Environmental disturbance F:..... V:..... T:.....	Item		
E	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item		
F	Clause 9.8 - Vermin F:..... V:..... T:.....	Item		
G	Clause 9.9 - Overhand work F:..... V:..... T:.....	Item		

Schedule of variables (B10)

Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract

10.1 - Provisional **bills of quantities** [2.2]
The quantities are provisional No

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10.2 - Availability of construction documentation [2.3]
Construction documentation is complete Yes

10.3 - Previous work - dimensional accuracy [3.1]

10.4 - Previous work - defects [3.2]

10.5 - Inspection of adjoining properties [3.3]

10.6 - Water [7.2]

Option A (by **contractor**) Yes

Option B (by **employer** - free of charge) No

Option C (by **employer** - metered) No

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	10.11 - Protection/isolation of existing/sectionally occupied works [9.2] Protection/isolation is required No 10.12 - Disturbance [9.5] 10.13 - Environmental disturbance [9.6] <u>SECTION C: SPECIFIC PRELIMINARIES</u> Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included			
A	Black economic empowerment and training F:..... V:..... T:.....	Item		
B	Proprietary branded products F:..... V:..... T:..... The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative	Item		
C	Contract instructions F:..... V:..... T:.....	Item		
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A	Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor Labour record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item		
	B Plant record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week	Item		

C	Guarantees	Item	
	F:..... V:..... T:.....		
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	Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement		

A	Overtime F:..... V:..... T:..... Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer	Item	
B	Co-operation of contractor for cost management F:..... V:..... T:.....	Item	
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Brought Forward It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors			R

[illegible]

	Brought Forward		R	
	The contractor shall comply with all the requirements set out in the Construction Regulations 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total noncompliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including extension of time or interest, due to such delay of payment. Provisions for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.			
A	Allow for the compulsory equipment and clothing, ie hats, safety shoes, safety clothing, safety glasses, safety masks, harnesses, etc F:..... V:..... T:.....	Item		
B	Allow for all compulsory health and safety posters, boards, etc F:..... V:..... T:.....	Item		
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A	Allow for all compulsory health and safety workshops, meetings, lectures, demonstrations, etc F:..... V:..... T:.....	Item		
B	Allow for all compulsory health and safety pamphlets, cards, paperwork, etc to each worker, consultant, public individual, etc coming onto the site F:..... V:..... T:.....	Item		
C	Allow for compulsory health and safety files that must be completed daily and must be handed to the employer on completion of the contract F:..... V:..... T:.....	Item		
D	Allow for COVID 19 health and safety specification requirements F:..... V:..... T:.....	Item		
E	Scope of Application as per Act No 85 of 1993 F:..... V:..... T:.....	Item		

F	Notification of Construction Work as per Act No 85 of 1993	Item	R
	F:..... V:..... T:.....		
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A	Employer's responsibilities as per Act No 85 of 1993	Item	
	F:..... V:..... T:.....		
B	Principal Contractor's responsibility as per Act No 85 of 1993	Item	
	F:..... V:..... T:.....		
C	Supervision of construction work as per Act No 85 of 1993	Item	
	F:..... V:..... T:.....		
D	Risk assessment as per Act No 85 of 1993	Item	
	F:..... V:..... T:.....		

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E	Fall protection as per Act No 85 of 1993 F:..... V:..... T:.....	Item	R
F	Structures Formwork and Support as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
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A	Excavation as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
B	Demolition work as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
C	Tunnelling as per Act No 85 of 1993 F:..... V:..... T:.....	Item	

D	Scaffolding as per Act No 85 of 1993 F:..... V:..... T:.....			
E	Suspended platforms as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
F	Botswains chairs as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
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A	Materials hoists as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
B	Batch plant as per Act No 85 of 1993 F:..... V:..... T:.....	Item		

C	Explosive powered tools as per Act No 85 of 1993 F:..... V:..... T:.....			
D	Cranes as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
E	Construction vehicles and mobile plant as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
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A	Electrical installations and machinery on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		

B	Use and temporary storage of flammable liquids on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....			
C	Water environments as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
D	Housekeeping on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
E	Stacking and storage on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
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A	Fire precautions as per Act No 85 of 1993			
	F:..... V:..... T:.....			
		Item		
B	Construction welfare as per Act No 85 of 1993			
	F:..... V:..... T:.....			
		Item		
C	Approved inspection Authorities as per Act No 85 of 1993			
	F:..... V:..... T:.....			
		Item		
D	Offences and penalties as per Act No 85 of 1993			
	F:..... V:..... T:.....			
		Item		
E	Repeal of regulations as per Act No 85 of 1993	Item		
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A	Short title as per Act No 85 of 1993 F:..... V:..... T:.....			
B	Obligatory Sub-contracting and Training F:..... V:..... T:..... The Contractor shall sub-contract 40% of the work to Domestic Sub-contractors as listed in the Schedule of Sub-Contractors in the Returnable Schedules The Principal Agent and the Contractor shall at all times make sure that the work complies with the relevant specifications, standards and norms as contained in this tender. The Principal Agent and the Contractor shall provide for the necessary skills transfer and assistance to complete the sub-contracted section of the works. The Principal Agent and the Contractor shall provide the necessary documentation to the Domestic SubContractor for upgrading of the rating by CIDB. BEE Sub-Contractors must be 100% black owned and have offices in Mpumalanga Province	Item Item		
C	Expanded Public Works Programme F:..... V:..... T:.....	Item		

The Contractor shall study the guidelines for the implementation of labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP) attached to this document. The Contractor shall take note of the requirements and inform all selected and or other sub-contractors, as no claim afterwards will be entertained

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A C11.1 Local and targeted labour

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

Item

B Allow for regular submission of proof of employment of local skilled and unskilled labour to Employer's representative

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

Item

C Training allowance paid to targeted labour in respect of formal training.

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

Item

D Extra over for the administration of payment of training allowances to targeted labour

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

Item

E	Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site F:..... V:..... T:.....			
F	C12: Contract drawings F:..... V:..... T:.....	Item Item		
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Brought Forward The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent				
A	C13: General preambles F:..... V:..... T:.....			
		Item		

B	C14: Trade names F:..... V:..... T:..... Wherever a trade name form any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for	Item	R
C	C15: Community Liaison Officer F:..... V:..... T:.....	Item	
Carried Forward			
Section No. 1 SECTION NO.1 - PRELIMINARIES Bill No. 1 Preliminaries JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)			
Brought Forward			R
A	Allow for a Community Liaison Officer (CLO) to be appointed F:..... V:..... T:.....	Item	

MAINTENANCE AND RENOVATIONS TO ENNERDALE LIBRARY

B	Allow for net extra cost involved in the employment of a Community Liaison Officer (CLO) in respect of the site office. F:..... V:..... T:.....	Item	
C	Allow for net extra cost involved in the employment of a Community Liaison Officer (CLO) in respect of the toilets. F:..... V:..... T:.....	Item	
D	Allow for net extra cost involved in the employment of a Community Liaison Officer (CLO) in respect of the sheds. F:..... V:..... T:.....	Item	
E	C16: SANS 1921-6: HIV/AIDS Awareness read in conjunction with the Associated Specification Data F:..... V:..... T:.....	Item	
Carried Forward Section No. 1 SECTION NO.1 - PRELIMINARIES Bill No. 1 Preliminaries JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)			R
Brought Forward			R

[illegible]

Section No. 1
SECTION NO.1 - PRELIMINARIES
Bill No. 1
Preliminaries
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)

Item No	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BILL NO. 1</u> <u>ALTERATIONS</u> <u>STANDARD PREAMBLES</u> <u>NOTE:</u> The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <u>SUPPLEMENTARY PREAMBLES</u> <u>View site</u> Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained <u>General</u> The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent				
				R

	With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork Carried Forward Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 1 Alterations JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				
		CO)			
	Brought Forward				R
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc) ----- <u>REMOVAL OF EXISTING WORK</u> <u>Breaking down and removing brickwork etc.</u>				
A	One brick wall	m2	4		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
B	Pitched corrugated roof 2000mm high including roof covering, timber trusses, eaves soffit covering, fascias, barge boards, gutters and rainwater pipes			Item	
C	Pitched tiled roof 2000mm high including roof covering, timber trusses, eaves soffit covering, fascias, barge boards, gutters and rainwater pipes			Item	
D	Skylight including framing, covering, connection, flashings, etc			Item	
E	Suspending ceilings, including suspension grid, cornices, etc	m2	1 724		

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

F	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2			
G	<u>Taking out and removing sundry joinery work, fittings, etc</u> Timber skirting in patches	m			
	Carried Forward				
	Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 1 Alterations JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)				R
	Brought Forward				R
A	<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and preparing screeds for new floor coverings</u> Carpet floor covering in patches <u>REPAIRS</u>	m2	50		
B	<u>Repairing cracks in internal cement plaster on concrete or brick surfaces exceeding 1mm wide by hacking off plaster 150mm wide on both sides of crack, preparing existing surface and applying new plaster on and including chicken mesh spiked to base finishing flush with existing surface (painting measured elsewhere</u> On horizontal top surfaces	m	15		

MAINTENANCE AND RENOVATIONS TO ENNERDALE LIBRARY

C	On vertical surfaces	m	50		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2				
	SECTION NO.2 - MAIN LIBRARY				
	Bill No. 1				
	Alterations				
	JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)				
Item No		Unit	Quantity	Rate	Amount

BILL NO. 2

EARTHWORKS

STANDARD PREAMBLES

NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors

SUPPLEMENTARY PREAMBLES

Excavation for working space in rock

Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling

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

User note

When no information regarding density tests is available the following preamble in respect of testing may be inserted

Testing

Prices for filling are to include for all necessary density tests in accordance with SABS 1200D

Carried Forward

Section No. 2
SECTION NO.2 - MAIN LIBRARY
Bill No. 2
Earthworks
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

R

	Brought Forward			R	
	<u>NOTE:</u> All items in this section shall be deemed to fall into Work Group 104 for Haylett formula purposes <u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u> <u>EXCAVATIONS ETC</u> <u>Excavation in earth not exceeding 2m deep</u> A Reducing levels under floors <u>Extra over trench and hole excavations in earth for excavation in</u> B Unreinforced concrete C <u>Extra over all excavations for carting away</u> Surplus material from excavations and /or stock pile on site to a dumping site to be located by the contractor (up to a radius of 5km return distance not covered) <u>FILLING ETC</u> <u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 93% Mod AASHTO density</u> D Under floors, steps, pavings, etc. E <u>Compaction of ground surfaces</u> Compaction of ground surface under floors, etc. including scarifying AASHTO density <u>WEED KILLERS, INSECTICIDES, ETC</u> F <u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years</u> Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (LI) Carried Forward to Summary of Section No. 2	m3 m3 m3 m3 m3 m3 m2 m2	5 1 5 1 8 8		
		CO)			

Section No. 2
SECTION NO.2 - MAIN LIBRARY
Bill No. 2
Earthworks
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>STANDARD PREAMBLES</u> NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <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) Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before reuse <u>Formwork</u> 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.				
				R	

	Carried Forward Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 3 Concrete, Formwork and Reinforcement JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				
	CO)				
	Brought Forward 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>Labour intensive methods</u> The contractor will be required to use labour intensive methods for the items which have been marked with the letters "LI" as described in the Scope of Work				R
	<u>NOTE:</u> All items in this section shall be deemed to fall into Work Group 110 for Haylett formula purposes <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>Concrete 25 MPa/19mm stone in:</u>				
A	Surface beds in patches	m3	1		
	<u>MOVEMENT JOINTS ETC</u>				
B		m	12		
	<u>Expansion joints with 10mm soft board between vertical concrete and brick surfaces</u> Not exceeding 300mm high to edges of surface beds (LI) <u>NOTE:</u> All items in this section shall be deemed to fall into Work Group 114 for Haylett formula purposes <u>REINFORCEMENT (PROVISIONAL)</u>				

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

C	<u>Fabric reinforcement</u> Type Ref. 193 in concrete surface beds, slabs, etc. Carried Forward to Summary of Section No. 2 Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 3 Concrete, Formwork and Reinforcement JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH	m2	8		
					R
		CO)			
Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO.4</u> <u>WATERPROOFING</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>DAMPPROOFING OF WALLS AND FLOORS</u> <u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u> Under surface beds				
A	<u>WATERPROOFING TO ROOFS ETC</u> <u>4mm "Derbigum SP4" or equal and approved fully bonded waterproofing system carried out strictly in accordance with the manufacturer's instructions and under a Ten Year Insurance Backed Guarantee on materials and workmanship (On Concrete)</u>	m2	8		
B	On flat roofs	m2	94		

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

C	30 x 30mm softwood timber triangular fillet	m	188		
	<u>JOINT SEALANTS, ETC</u>				
D	<u>Clear silicon sealant</u>		16		
	Sealing around the skylight				
		m		R	
	Carried Forward to Summary of Section No. 2				
	Section No. 2				
	SECTION NO.2 - MAIN LIBRARY				
	Bill No. 4				
	Waterproofing				
	JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				
	CO)				
Item No		Unit	Quantity	Rate	Amount

BILL NO.5

ROOF COVERINGS, CLADDINGS, ETC

SUPPLEMENTARY PREAMBLES

View site

Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade

General

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

Description of all roof coverings are deemed to include for all straight cutting

Straight cutting

Description of all roof coverings are deemed to include for all straight cutting

Carried Forward

Section No. 2

SECTION NO.2 - MAIN LIBRARY

Bill No. 5

Roof coverings, claddings, etc

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

R

	Brought Forward			R	
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u> <i>Where roof coverings are fixed on top of rigid board insulation to purlins etc they are to be described as such</i> <i>Note that besides galvanised steel, sheeting is also available in corten steel, stainless steel, copper and aluminium</i> <u>0,58mm. IBR profile Z275 spelter galvanised steel troughed sheeting with an approved coated finish to one side, and half coat approved coated finish to underside, and flashings and accessories fixed to timberr/steel purlins at centres as approved by structural engineer</u> Roof covering with pitches not exceeding 50 degrees				
A		m2	2 500		
B	Ridge capping 462mm girth	m	141		
C	Ridge capping 462mm girth	m	68		
D	Side wall flashing 408mm girth	m	257		
E	Head wall flashing 375mm girth	m	70		
F	Cover flashing 154mm girth	m	257		
G	Narrow and broad flute closers	m	68		
	<u>ROOF AND WALL INSULATION</u>				
H	<u>Sisalation RSA 420" heavy industrial grade aluminium foil based insulation</u> Insulation laid taut over purlins (at approximately 1800mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	1 910		
	<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>				
	Carried Forward			R	

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

	Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 5 Roof coverings, claddings, etc JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				
		CO)			
	Brought Forward				R
	<u>0,58mm. galvanised sheet iron with "Global-Sil" finish on one side</u>				
	Flashings				
A	<u>BUDGETARY ALLOWANCE</u>	m2	100		
B	<u>Allow a budgetary sum of R50 000.00 (Fifty Thousand Rand) for the design, supply and installation of steel framed skylight including translucent roof covering or commercial-grade 200 micron plastic cover laid taught over the frame complete with fixings, side laps, flashings etc (sloping away to the nearest channel) complete</u>		Item		
		CO)			R

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

Skylight complete

Carried Forward to Summary of Section No. 2

Section No. 2
SECTION NO.2 - MAIN LIBRARY
Bill No. 5
Roof coverings, claddings, etc
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

Item No		Unit	Quantity	Rate	Amount
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BILL NO.6

CARPENTRY AND JOINERY

NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent.
Any other brand may be used with prior written approval of the Principal Agent

NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors

SUPPLEMENTARY PREAMBLES

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

Joinery

Descriptions of frames shall be deemed to include frames, transomes, rails, etc

Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts

Decorative thermosetting plastic laminate covering

Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish

ROOFS, ETC

Carried Forward

R

Section No. 2
SECTION NO.2 - MAIN LIBRARY
Bill No. 6
Carpentry and Joinery
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

Brought Forward			R	
<u>Plate nailed timber roof truss construction</u> The following is applicable in respect of roof trusses: 1. Trusses are at maximum 1200mm centres. 2. Roof covering is "Kliplok" roof sheeting on 76 x 50mm SAP purlins at maximum 1200mm centres. 3. Ceilings are 6,4mm gypsum plasterboard on 38 x 50mm branderling at 400mm centre and BPB Gypsum DonnCeil Gyprex White vinyl finished gypsum ceiling tiles size 1200 x 600mm x 12,5mm thick laid on and including SQ/T38 galvanised main tees, cross tees, hold-down clips, wedges, etc., all suspended with galvanised hangers at hanger centres not exceeding 1200mm 4. All trusses are fabricated in a factory by specialists approved by the Engineers 5. All trusses shall be designed by a Registered Professional Engineer (in accordance with the draft SABS Code of Practice for the Design of Timber Trusses). An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account. 6. The Manufacturer of the trusses shall supply a written guarantee that the trusses are designed, manufactured and erected to support the roof covering specified. The guarantee shall be valid for a period of 10 (ten) years. 7. Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered. 8. Dimensions in descriptions of trusses are nominal and actual measurements are to be taken on site before design or fabrication commences.				
Carried Forward			R	

	Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 6 Carpentry and Joinery JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)				
	Brought Forward				R
A	<u>Sawn softwood</u> Roof construction to double pitched roof supplied and erected complete in position to irregular shaped building with bracing, gangboarding, purlins, eaves purlins, etc. for buildings (Measurements to be taken and verified on site and any shortfall included in the pricing)	m2	2 124		
B	Roof construction to hipped roof supplied and erected complete in position to square shaped building with bracing, gangboarding, purlins, eaves purlins, etc. for buildings ((Hall, foyer, public ablutions, etc) Measurements to be taken and verified on site and any shortfall included in the pricing)	m2	376		
	<u>Sundries</u>				
C	Two coats creosote on sawn timbers	m2	34		
D	30 x 1,6mm galvanised hoop iron roof tie 1500mm girth with each end fixed to timber	No	100		
	<u>EAVES, VERGES, ETC</u>				
E	<u>Pressed fibre-cement</u> 12 x 225mm fascias and barge boards including galvanised steel H-profile jointing strips				
	<u>SKIRTINGS</u>	m	68		

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

F	<u>Wrought meranti</u> 76 x 19mm Skirtings with 19mm meranti quadrant, nailed Carried Forward to Summary of Section No. 2 Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 6 Carpentry and Joinery JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH	m	40		R
		CO)			

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO .7</u> <u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u> <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere <u>Ceilings</u> Unless otherwise described ceilings shall be deemed to be horizontal <u>Bulkheads</u> Unless otherwise described bulkheads shall be deemed to be horizontal along the length <u>Steel components</u> All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121 ----- <u>CEILING TIMBERS, BEADS, INSULATION, ETC</u> <u>"Isotherm" insulation</u> 50mm Insulation in blanket form closely fitted and laid on top of brandering between roof timbers etc <u>NAILED-UP CEILINGS</u> <u>SUPPLEMENTARY PREAMBLES</u>				
A		m2	1 923		
	Carried Forward				
				R	

	Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 7 Ceilings, partitions and access flooring JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)				
	Brought Forward				
	<u>Openings</u>				
	Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc				
	<u>6,4mm Gypsum plasterboard with 32mm wrought softwood half round cover strip over joints</u>				
A	Ceilings including 38 x 50mm sawn softwood bandering at 400mm centres	m2	131		
B	Horizontal bulkhead including 38 x 50mm sawn softwood bandering at 400mm centres				
		m2	26		
C	Opening for 180mm diameter downlighter	No	10		
D	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	2		
	<u>Gypsum plasterboard cornices</u>				
E	75mm Coved cornices	m	124		
	<u>6,4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips</u>				
F	Ceilings including 38 x 50mm sawn softwood bandering at 400mm centres	m2	68		
	<u>Fibre cement cornices</u>				
G	75mm Coved cornices	m	68		

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

SUSPENDED CEILINGS

SUPPLEMENTARY PREAMBLES

Proprietary suspended ceilings

Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations

Carried Forward

Section No. 2

SECTION NO.2 - MAIN LIBRARY

Bill No. 7

Ceilings, partitions and access flooring

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

R

Brought Forward

R

Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)

Flush plastered gypsum plasterboard suspended ceilings

Ceilings shall comprise 12,5mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface

The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood

Flush plastered gypsum plasterboard suspended bulkheads

Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer

Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc

Carried Forward

R

Section No. 2

SECTION NO.2 - MAIN LIBRARY

Bill No. 7

Ceilings, partitions and access flooring

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

[illegible]

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

Section No. 2
SECTION NO.2 - MAIN LIBRARY
Bill No. 7
Ceilings, partitions and access flooring
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u> <u>FLOOR COVERINGS, WALL LININGS, ETC</u> <u>STANDARD PREAMBLES</u> NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <u>SUPPLEMENTARY PREAMBLES</u> <u>Fixing</u> Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc <u>FLOOR COVERINGS</u> <u>Carpet tiles to match existing</u>			
A	On floors in patches	m2	50	

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

B	<u>SUNDRIES</u>	m2	1 154	
	Steam cleaning to carpets			
	Carried Forward to Summary of Section No. 2 Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 8 Floor Coverings, Plastic Linings, etc JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)			R

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 9 <u>IRONMONGERY</u> NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary items</u> Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered On request returnable samples are to be provided to the principal agent for consideration <u>HINGES, BOLTS, ETC</u> <u>CATCHES, CABIN HOOKS, ETC</u> Brass window stay A No 10 Brass window catch B No 10 Louvre window closer/handle C No 30 Carried Forward				
				R	

	Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 9 Ironmongery JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				
		CO)			
	Brought Forward				R
A	Louvre window clip	No	35		
	<u>ROLL-UP, RETRACTABLE SCREENS AND BLINDS</u>				
	<u>Windovert" or equivalent blinds</u>				
B	<u>Supply and install complete with colour co-ordinated ladder lace, cord, head and bottom rails, tilters, cord locks and installation brackets</u>	m2	160		
		CO)			R

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

50mm blade width aluminium venetian blinds to suit various window opening sizes (measurements to be verified on site)

Carried Forward to Summary of Section No. 2

Section No. 2

SECTION NO.2 - MAIN LIBRARY

Bill No. 9

Ironmongery

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 10</u> <u>PLASTERING</u> <u>STANDARD PREAMBLES</u> NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <u>SUPPLEMENTARY PREAMBLES</u>				

NOTE: All items in this section shall be deemed to fall into
Work Group 142 for Haylett formula
purposes

SCREEDS

Screeds steel trowelled, on concrete

25mm. thick on floors and landings

A

m2

8

B

**CORNER PROTECTORS, DIVIDING STRIPS,
ETC**

15 x 10 x 1.6mm L-section brass dividing strips between
differing floor finishes

50

m

R

Carried Forward to Summary of Section No. 2

Section No. 2

SECTION NO.2 - MAIN LIBRARY

Bill No. 10

Plastering

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO .11</u> <u>TILING</u> <u>Patterns</u> Unless otherwise described, tiles shall be laid with continuous joints in both directions <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 as recommended by the manufacturer of the tiles ----- <u>FLOOR TILING</u> <u>Non slip ceramic floor tiles fixed with adhesive to screed (screed elsewhere) and flush pointed with grout to match</u> On floors and landings in patches <u>Aluminium corner protectors, stair nosings, expansion joint strips, etc</u> 76 x 76 x 2mm Natural corner protectors <u>SUNDRIES</u>				
A		m2	135		
B		m	10		
	Carried Forward				
				R	

MAINTENANCE AND RENOVATIONS TO ENNERDALE LIBRARY

	Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 11 Tiling JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				
		CO)			
A	Brought Forward <u>HTC Twister" Restoration deep clean</u>	m2	538	R	
		CO)		R	

MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY

Existing tiled floors

Carried Forward to Summary of Section No. 2
Section No. 2
SECTION NO.2 - MAIN LIBRARY
Bill No. 11
Tiling
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

Item No	Unit	Quantity	Rate	Amount
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BILL NO.12

**PLUMBING AND DRAINAGE
(PROVISIONAL)**

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Stormwater channels

Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site

PVC-U pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

PVC-U pressure pipes and fittings

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints

As-built drawings

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

Carried Forward

Section No. 2

SECTION NO.2 - MAIN LIBRARY

Bill No. 12

Plumbing and drainage

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

R

	Brought Forward			R	
	<u>RAINWATER DISPOSAL</u>				
	<u>0,6mm Galvanised sheet iron</u>				
A	100 x 125mm eaves gutter with beaded front edge including fixing brackets	m	34		
B	Extra over 100 x 125mm eaves gutter for stopped end	No	15		
C	Extra over 100 x 125mm eaves gutter for angle	No	24		
D	Extra over 100 x 125mm eaves gutter for 100 x 76mm outlet no 1	No	24		
E	100 x 76mm rainwater pipes	m	117		
F	Extra over 100 x 76mm rainwater pipe for soldered bend	No	42		
	<u>GRATING COVER</u>				
	<u>Galvanized Steel</u>				
G	Supply and instal custom grating cover including framing, connections etc to existing 500mm wide concrete channel to the approval of the Engineer	m	188		
H	Supply and install custom drainage outlet steel grating	No	8		
	<u>HOLES ETC</u>				
	<u>Core drilling hole exceeding 100mm and not exceeding 150mm diameter</u>				
I	200mm Thick reinforced concrete slab, beam, wall, etc	No	18		
J	<u>UNBLOCKING AND PUMPING</u>	Hrs	4.00		
	Un-blocking of drains, channels, manholes, etc using sewer rods				
	Carried Forward			R	

Section No. 2
SECTION NO.2 - MAIN LIBRARY
Bill No. 12
Plumbing and drainage
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH)

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**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

100mm vertical outlet

Carried Forward to Summary of Section No. 2

Section No. 2
SECTION NO.2 - MAIN LIBRARY
Bill No. 12
Plumbing and drainage
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO .13</u>				
	<u>GLAZING</u>				
	<u>4mm Obscure glass</u>				
A	Panes not exceeding 0,1m ²	m2	5		
B	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	10		

MAINTENANCE AND RENOVATIONS TO ENNERDALE LIBRARY

C	6.38mm obscure glass		10	600.25	6 002.50
	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2			
				R	
	Carried Forward to Summary of Section No. 2				
	Section No. 2				
	SECTION NO.2 - MAIN LIBRARY				
	Bill No. 13				
	Glazing				
	JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)				

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 14</u> <u>PAINTWORK</u> <u>NOTE:</u> The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <u>SUPPLEMENTARY PREAMBLES</u> <u>COLOURS</u> Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091 ----- <u>PAINTWORK ETC TO NEW WORK</u> <u>ON INTERNAL FLOATED PLASTER SURFACES</u> <u>One coat alkaline resistant plaster primer and two coats superior acrylic PVA emulsion paint</u> Ceilings and beams <u>ON FIBRE-CEMENT BOARD SURFACES</u> <u>One coat alkaline resistant plaster primer and two coats superior acrylic PVA emulsion paint</u> Fascias and barge boards, including priming metal jointing strips Ceilings and beams <u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u>				
A		m2	131		
B		m	68		
C		m2	68		
	Carried Forward				
				R	

Section No. 2
SECTION NO.2 - MAIN LIBRARY
Bill No. 14
Paintwork
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

Brought Forward

R

ON INTERNAL FLOATED PLASTER SURFACES

One coat alkaline resistant plaster primer, one coat universal alkyd based undercoat and one coats alkyd based eggshell enamel paint

Walls

ON WOOD SURFACES

One coat wood primer, one universal alkyd based undercoat and two coats alkyd based eggshell enamel paint

m2

130

m

40

R

CO)

MAINTENANCE AND RENOVATIONS TO ENNERDALE LIBRARY

Skirtings, rails, etc not exceeding 300mm girth				40 524.35
Carried Forward to Summary of Section No. 2 Section No. 2 SECTION NO.2 - MAIN LIBRARY Bill No. 14 Paintwork JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				

	SECTION NO.2 - MAIN LIBRARY				
	<u>SECTION SUMMARY - SECTION NO.2 - MAIN LIBRARY</u>				
Bill No			Page No		Amount
1	Alterations		34		
2	Earthworks		36		
3	Concrete, Formwork and Reinforcement		38		
4	Waterproofing		39		
5	Roof coverings, claddings, etc		42		

MAINTENANCE AND RENOVATIONS TO ENNERDALE LIBRARY

[illegible]

SECTION NO. 3

BILL NO. 1

ALTERATIONS

STANDARD PREAMBLES

NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent

NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors

SUPPLEMENTARY PREAMBLES

View site

Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

General

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

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

Carried Forward

R

Section No. 3
SECTION NO.3 KITCHEN AND ABLUTIONS
Bill No. 1
Alterations
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

	Brought Forward			R	
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc) ----- <u>REMOVAL OF EXISTING WORK</u>				
A	<u>Taking out and removing sundry joinery work, fittings, etc</u> Timber sink cupboard 2500 x 600 x 900mm high, from sink and making good floor and wall finishes (making good tiling and paintwork elsewhere) <u>REPAIRS</u>				
B	<u>Repairing cracks in internal cement plaster on concrete or brick surfaces exceeding 1mm wide by hacking off plaster 150mm wide on both sides of crack, preparing existing surface and applying new plaster on and including chicken mesh spiked to base finishing flush with existing surface (painting measured elsewhere</u> On vertical surfaces	No m	1 25		
	Carried Forward to Summary of Section No. 3	CO)		R	

Section No. 3
SECTION NO.3 KITCHEN AND ABLUTIONS
Bill No. 1
Alterations
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>CARPENTRY AND JOINERY</u>			

	<u>JOINERY FITTINGS</u>			
	General			
	The following cupboards fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc			
	<u>Kitchen cupboards etc with approved hinges, handles and telescopic drawer sliders</u>			
A	L shaped sink cupboard 2500 - 1200 x 550 x 880mm high with sides, bottom, division, shelf, back and double hinged doors (sink elsewhere)	No	1	
	<u>32mm thick post formed (on one side) top with 0,6mm Decon Laminated in Artic Granite or similar</u>			
B	550mm wide	m	1	
C	Extra over for edge strip	m	1	

D	Extra over for splay cutting	m	1		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3				
	SECTION NO.3 KITCHEN AND ABLUTIONS				
	Bill No. 2				
	Carpentry & Joinery				
	JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)				

Item No	Unit	Quantity	Rate	Amount
	<u>BILL NO. 3</u> <u>TILING</u> <u>Patterns</u> Unless otherwise described, tiles shall be laid with continuous joints in both directions <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 as recommended by the manufacturer of the tiles ----- <u>WALL TILING</u>			

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

A	<u>Ceramic wall tiles to match existing for supply and delivery, excluding labour, waste and VAT) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound</u> On walls in patches Carried Forward to Summary of Section No. 3 Section No. 3 SECTION NO.3 KITCHEN AND ABLUTIONS Bill No. 3 Tiling JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH	m2	2	R	
CO)					
Item No		Unit	Quantity	Rate	Amount

BILL NO.4

PLUMBING AND DRAINAGE
(PROVISIONAL)

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Stormwater channels

Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site

Septic tanks

Descriptions of proprietary type 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 and disposal of surplus material on site

Stainless steel basins, sinks, wash troughs, urinals, etc

Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)

Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Sealing of edges

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

Carried Forward

R

Section No. 3

SECTION NO.3 KITCHEN AND ABLUTIONS

Bill No. 4

Plumbing and drainage

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

Brought Forward <u>PVC-U pipes and fittings</u> Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings <u>PVC-U pressure pipes and fittings</u> Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints <u>High density polyethylene (HDPE) pipes and fittings</u> Pipes shall be type IV and of the class specified with compression fittings <u>Polypropylene pipes</u> Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings 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 <u>Copper pipes</u> Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition Carried Forward			R	
			R	

Section No. 3 SECTION NO.3 KITCHEN AND ABLUTIONS Bill No. 4 Plumbing and drainage JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)				
Brought Forward <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained <u>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>Paper wrapping to pipes</u> Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings <u>Disinfection of water pipework</u> Water pipework is to be disinfected at completion <u>Laying, backfilling, bedding, etc of pipes</u> Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001 <u>General</u> Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends			R	
			R	

	Carried Forward Section No. 3 SECTION NO.3 KITCHEN AND ABLUTIONS Bill No. 4 Plumbing and drainage JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				
		CO)			
	Brought Forward Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately) Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured) <u>As-built drawings</u> Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere) ----- <u>SANITARY FITTINGS</u> <u>Vitreous China Sanitaryware - "Vaal" or equally approved</u> 510 x 405mm "Hibiscus 844820" white wash hand basin with two tap holes including integrated overflow and chainstay hole, bolted to wall			R	
A		No	1		
	<u>Sundries</u> Replace PVC flush pipe rubber pan connector				
B		No	3		

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

C	Attend to and service / fix faulty cistern including replacing all washers, seals, adjusting flushing mechanism, etc. and leave in good working order	No	4		
	Carried Forward				
	Section No. 3 SECTION NO.3 KITCHEN AND ABLUTIONS Bill No. 4 Plumbing and drainage JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)			R	
	Brought Forward				
A	Repair leaking joint to urinal flushpipe or spreader	No	3		
	<u>REPLACE DAMAGED TRAPS, ETC.</u>				
	<u>Carefully take out and remove damaged item, replace with new including washers, flanges, capnuts, pipe clips, etc. and</u>				
B	32mm "P" or "S" trap	No	1		
C	32mm Bottle trap	No	1		
	<u>TAPS, VALVES, ETC.</u>				
	<u>Cobra Watertech" or equally approved</u>				
D	15mm Elbow action pillar tap	No	2		
E	15mm angle regulating valve	No	2		
	<u>REPLACE DAMAGED SOIL, SEWER, WASTE, VENT PIPE AND FITTINGS</u>				
	<u>PVC-U SOIL, SEWERAGE</u>				
	<u>Carefully take out and remove damaged section to uPVC wastepipe and / or fittings, replace with new including holderbats, pipe clips, etc. as necessary and leave in good working order</u>				
F	50mm Pipes	m	5		

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

G	110mm Pipes	m	3	
	<u>REPLACE DAMAGED WATER PIPE AND FITTINGS</u>			
	<u>Locate, isolate affected area and replace damage to Galvanised Steel water supply line and / or fittings including holderbats, pipe clips, etc. as necessary and leave in good working order.</u>			
	15mm Pipes			
H	Carried Forward	m	3	R
	Section No. 3 SECTION NO.3 KITCHEN AND ABLUTIONS Bill No. 4 Plumbing and drainage JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)			
	Brought Forward			R

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

A	<u>Galvanised Steel fittings</u> 15mm fittings Carried Forward to Summary of Section No. 3 Section No. 3 SECTION NO.3 KITCHEN AND ABLUTIONS Bill No. 4 Plumbing and drainage JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH	No	10		R
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CO)

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 5</u> <u>PAINTWORK</u> <u>NOTE:</u> The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <u>SUPPLEMENTARY PREAMBLES</u> <u>COLOURS</u> Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091 <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 Carried Forward				
				R	

Section No. 3 SECTION NO.3 KITCHEN AND ABLUTIONS Bill No. 5 Paintwork JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)				
Brought Forward <u>PAINT SPECIFICATIONS</u> All painting shall be carried out in strict accordance with "Plascon" or equally approved specifications ----- <u>PAINTWORK ETC TO NEW WORK</u> <u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u> <u>ON INTERNAL FLOATED PLASTER SURFACES</u> A <u>One coat alkaline resistant plaster primer, one coat universal alkyd based undercoat and one coats alkyd based eggshell enamel paint</u> Walls		74	R	R

Carried Forward to Summary of Section No. 3	m2			
Section No. 3				
SECTION NO.3 KITCHEN AND ABLUTIONS				
Bill No. 5				
Paintwork				
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				
CO)				

SECTION NO.3 KITCHEN AND ABLUTIONS				
SECTION SUMMARY - SECTION NO.3 KITCHEN AND ABLUTIONS				
Bill No		Page No		Amount
1	Alterations	64		
2	Carpentry & Joinery	65		
3	Tiling	66		
4	Plumbing and drainage	72		

MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY

5

Paintwork

74

Carried to Final Summary

Section No. 3

SECTION NO.3 KITCHEN AND ABLUTIONS

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)

R

Item
No

Unit

Quantity

Rate

Amount

SECTION NO. 4

BILL NO. 1

ALTERATIONS

STANDARD PREAMBLES

NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent

NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors

SUPPLEMENTARY PREAMBLES

View site

Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

General

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

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

Carried Forward

R

Section No. 4

SECTION NO.4 ADMINISTRATIVE AREAS

Bill No. 1

Alterations

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

	Brought Forward			R	
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc) ----- <u>REMOVAL OF EXISTING WORK</u> <u>Taking out and removing doors, windows, etc. including thresholds, sills, etc. and building up openings in brick walls including making good face brickwork on both side.</u> ÷ Timber single door and frame not exceeding 2,5m² from one brick wall				
A		No	1		
B	Timber double door and steel frame 1800 x 2100mm high	No	1		
	<u>OPENINGS THROUGH EXISTING WALLS, ETC</u>				
	<u>Breaking out for and forming plain openings through brick walls including necessary precast concrete lintels and making facebrick on both sides and into reveals and with concrete thresholds with steel trowelled finish (making good paintwork elsewhere.</u> Opening 900 x 2100mm high through half brick wall				
C		No	1		
	<u>REPAIRS</u>				
	Carried Forward			R	

	Section No. 4 SECTION NO.4 ADMINISTRATIVE AREAS Bill No. 1 Alterations JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)				
	Brought Forward			R	
A	<u>Repairing cracks in internal cement plaster on concrete or brick surfaces exceeding 1mm wide by hacking off plaster 150mm wide on both sides of crack, preparing existing surface and applying new plaster on and including chicken mesh spiked to base finishing flush with existing surface (painting measured elsewhere</u>	m	10		
		CO)		R	

On vertical surfaces

Carried Forward to Summary of Section No. 4

Section No. 4
SECTION NO.4 ADMINISTRATIVE AREAS
Bill No. 1
Alterations
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

Item No		Unit	Quantity	Rate	Amount
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BILL NO.2

CARPENTRY AND JOINERY

NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent.
Any other brand may be used with prior written approval of the Principal Agent

NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors

SUPPLEMENTARY PREAMBLES

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

Joinery

Descriptions of frames shall be deemed to include frames, transomes, rails, etc

Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts

Decorative thermosetting plastic laminate covering

Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish

TIMBER DOORS, WINDOWS, ETC

Carried Forward

R

Section No. 4

SECTION NO.4 ADMINISTRATIVE AREAS

Bill No. 2

Carpentry and Joinery

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

[illegible]

SECTION NO.4 ADMINISTRATIVE AREAS
Bill No. 2
Carpentry and Joinery
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>IRONMONGERY</u>			
<u>STANDARD PREAMBLES</u>			
The Tenderer is referred to the Building works GP ASC Rev 0 Model Preambles for Trades and to the Supplementary Preambles			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary items</u>			
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
On request returnable samples are to be provided to the principal agent for consideration			
<u>Labour intensive methods</u>			
The contractor will be required to use labour intensive methods for the items which have been marked with the letters "LI" as described in the Scope of Work			
<u>NOTE:</u> All items in this section shall be deemed to fall into Work Group 132 for Haylett formula purposes			

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

A	<u>HINGES, BOLTS, ETC</u>	Sets	1.0	R
	Three point locking panic bar for double door			
	Carried Forward			
	Section No. 4 SECTION NO.4 ADMINISTRATIVE AREAS Bill No. 3 Ironmongery JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)			

	Brought Forward			R
	<u>Windovert" or equivalent blinds</u>			
	<u>LOCKS</u>			
	Two lever lockset (2 Keys) with striking plate fixed to metal Ref. No. CZ682-24-95CH/ SC. Lockset with lock, handles and keys, complete	No	1	
A				
B	Union EP Cylinder upright lock Ref No L-2215-78SS/SL			
		No	1	
C				
	Rebated conversion set Ref No IW 2140 / UDY2900SS fixed to timber door	No	1	
	<u>HANDLES, ETC</u>			
D	Cedar Pull Handle on Back Plate LH/ RH Profile 152x176 Code: AL5C67L-05AS / AL5C67R-05AS	No	2	
	<u>SUNDRIES</u>			
	Code No "IW5002SC" / Union CZ8731BP door stop plugged			
E		No	3	

F	<u>DOOR CLOSERS</u> Regular arm door closer with bracket fixed to metal Ref. No DC 777- EN 2-4 Code:770 Carried Forward to Summary of Section No. 4 Section No. 4 SECTION NO.4 ADMINISTRATIVE AREAS Bill No. 3 Ironmongery JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)	No	1		R
---	---	----	---	--	----------

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO .4</u> <u>METALWORK</u> <u>Descriptions of bolts, anchors, etc</u> Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres ----- <u>STEEL GATES, SCREENS, ETC</u> A <u>Making good screens and gates to doors, etc.</u> Single gate 810 x 2066mm high of 50 x 50 x2,5mm hollow section frame and two 50 x 50 x 2,5mm hollow section horizontal middle rails filled in with 20mm diameter solid vertical round bars at 89mm centres framed through middle rails and into framing and fitted with three suitable hinges welded to post and a "Union" LX 3261 security gate lock box between middle rails <u>PRESSED STEEL DOOR FRAMES</u> <u>1,2mm. Rebated frame suitable one brick wall</u> B Frame for door size 813 x 2032mm high C Frame for double door size 1613 x 2032mm high Carried Forward to Summary of Section No. 4 Section No. 4				
		No	1		
		No	1		
			1	R	

SECTION NO.4 ADMINISTRATIVE AREAS
Bill No. 4
Metalwork
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

No

CO)

Item No		Unit	Quantity	Rate	Amount
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BILL NO .5

TILING

Patterns

Unless otherwise described, tiles shall be laid with continuous joints in both directions

Fixing

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

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

Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles

FLOOR TILING

MAINTENANCE AND RENOVATIONS TO ENNERDALE LIBRARY

[illegible]

BILL NO. 6

PAINTWORK

NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent.
Any other brand may be used with prior written approval of the Principal Agent

NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors

SUPPLEMENTARY PREAMBLES

COLOURS

Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091

PREPARATORY WORK TO EXISTING WORK

Previously painted plastered surfaces

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

Previously painted metal surfaces

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal

Previously painted wood surfaces

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

Carried Forward

R

Section No. 4

SECTION NO.4 ADMINISTRATIVE AREAS

Bill No. 6

Paintwork

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH

CO)

Brought Forward				R	
A	<u>PAINT SPECIFICATIONS</u> All painting shall be carried out in strict accordance with "Plascon" or equally approved specifications ----- <u>PAINTWORK ETC TO NEW WORK</u> <u>ON INTERNAL FLOATED PLASTER SURFACES</u> One coat alkaline resistant plaster primer and two coats superior acrylic PVA emulsion paint Ceilings and beams				
	<u>ON WOOD SURFACES</u> One coat wood primer, one universal alkyd based undercoat and two coats alkyd based eggshell enamel paint Doors	m2	6		
	<u>ON METAL SURFACES</u>	m2	4		
	One coat alkyd based universal undercoat and one coat superior quality universal enamel paint Door frames	m2	1		
D	<u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u> <u>ON INTERNAL FLOATED PLASTER SURFACES</u> One coat alkaline resistant plaster primer, one coat universal alkyd based undercoat and one coats alkyd based eggshell enamel paint Walls	m2	49		
	Carried Forward to Summary of Section No. 4 Section No. 4	CO)		R	

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

	SECTION NO.4 ADMINISTRATIVE AREAS Bill No. 6 Paintwork JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH				
	SECTION NO.4 ADMINISTRATIVE AREAS				
	<u>SECTION SUMMARY - SECTION NO.4 ADMINISTRATIVE AREAS</u>				
Bill No		Page No			Amount
1	Alterations	78			
2	Carpentry and Joinery	80			
3	Ironmongery	82			
4	Metalwork	83			
5	Tiling	84			

[illegible]

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 5</u> <u>BILL NO. 1</u> <u>TILING</u> <u>Patterns</u> Unless otherwise described, tiles shall be laid with continuous joints in both directions <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 as recommended by the manufacturer of the tiles ----- <u>WALL TILING</u> <u>Ceramic wall tiles to match existing for supply and delivery, excluding labour, waste and VAT) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound</u> A On walls in patches B <u>Mosaic tiles to match existing fixed with adhesive to screed (screed elsewhere) and flush pointed with grout</u> On walls in patches Carried Forward to Summary of Section No. 5 Section No. 5				
		m2	12		
			2		
				R	

SECTION NO.5 HALL & TUCKSHOP Bill No. 1 Tiling JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH	m2		
	CO)		

Item No	Unit	Quantity	Rate	Amount
<u>BILL NO .2</u> <u>METALWORK</u> <u>Descriptions of bolts, anchors, etc</u> Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres ----- <u>STEEL HANDRAILS, BALUSTRADES, ETC</u>				

A	<u>Balustrading of 50 x 10mm flat section continuous top rail, 40 x 10mm flat section continuous bottom rail, 12mm square bar section intermediate balusters at 125mm centres between to and bottom rails and 38 x 38 x 2mm hollow section post at approximately 1200mm centres each with 120 x 50 x 8mm flat section base plate twice holed for bolts</u> Balustrading of 50 x 10mm flat section continuous top rail, 40 x 10mm flat section continuous bottom rail, 12mm square bar section intermediate balusters at 125mm centres between to and bottom rails and 38 x 38 x 2mm hollow section post at approximately 1200mm centres each with 120 x 50 x 8mm flat section base plate twice holed for bolts Carried Forward Section No. 5 SECTION NO.5 HALL & TUCKSHOP Bill No. 2 Metalwork JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH	m	5	R	
A	Brought Forward Extra over 50 x 10mm flat section for mitred Lintersection	No	5	R	

[illegible]

SECTION NO.5 HALL & TUCKSHOP				
Bill No	<u>SECTION SUMMARY - SECTION NO.5 HALL & TUCKSHOP</u>	Page No		Amount
1	Tiling	88		
2	Metalwork	90		
Carried to Final Summary				R

Section No. 5
SECTION NO.5 HALL & TUCKSHOP
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)

Item No		Quantity	Rate	Amount
	<u>SECTION NO.6</u> <u>EXTERNAL WORKS, ETC (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of ground</u> The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock" <u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site ----- <u>GENERAL SITE WORKS</u>			
A	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	100	
B	Dig up and remove contaminated rubbish, debris	m3	6	
C	Carting away rubble up to 5km radius (to dumping area, return distance not covered)	m3	6	
	<u>Taking out and removing, grubbing up roots and filling in holes</u>			
D	Tree stump exceeding 200mm. and not exceeding 500mm. girth	No	6	

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

E	Tree stump exceeding 500mm. and not exceeding 1000mm. girth	No	3	2	
				R	
	Carried Forward				
	Section No. 6 SECTION NO.6 EXTERNAL WORKS Bill No. 1 Siteworks, etc JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)				
Brought Forward					R
A	Tree stump exceeding 1000mm. and not exceeding 2000mm. girth	No	2		
B	<u>Allow for felling and trimming of trees around the site</u>		Item		
	<u>CLEAR SEWER AND WASTE WATER BLOCKAGE</u> <u>Locate blockage, clear sewer pipes by means of rodding distances between access chambers/junctions (referred to as "Pipe Length") not exceeding 10m and removing all obstructions, etc. leaving pipes open and free flowing including disposal of all materials causing blockage. excavations and backfilling where required.</u> <u>Pipe length not exceeding 10m Length</u> 160mm diameter pipe not exceeding 10m				
C	<u>Clean catchpit, with internal dimensions not exceeding 1050 x 750mm or 1000mm diameter, by removing all silt, etc. leaving all internal surfaces and sump free from any dirt or debris including disposal of all removed material</u> Not exceeding 1,0m deep		Item		
D			Item		

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

E	<u>Covers, etc.</u>	No	2	R	
	450 x 450 x 79kg Medium duty cast iron flat stormwater grating and frame				
	Carried to Final Summary				
	Section No. 6 SECTION NO.6 EXTERNAL WORKS Bill No. 1 Siteworks, etc JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)				
Item No		Quantity	Rate	Amount	

SECTION NO.7- PROVISIONAL SUMS

BILL NO. 1

**PROVISIONAL SUMS FOR THE MAIN
CONTRACT / NOMINATED OR SELECTED
SUBCONTRACT**

SUPPLEMENTARY PREAMBLES

General

All prime cost amounts and provisional sums are net.
Prime cost amounts include for delivery to site of all
articles concerned

Profit

Where stated, the contractor may allow for profit if
required

General attendance on selected subcontractors

The item "Attendance" which follows each provisional
sum for selected subcontractors' work, shall be deemed
to cover all the contractor's costs incurred in providing
free of charge to the selected subcontractors, the
following:

General attendance on selected subcontractors

1. The services as set out in clause B9 of the
Preliminaries
2. Hoisting of the selected subcontractor's
material in batches that can be handled by the
contractor's hoist or crane during normal working
hours
3. Making good in all trades and cleaning
down and removal of rubbish on completion

Contingency sums

Work for which contingency sums are allowed will be
measured and valued in accordance with clause 32 of
the Principal Building Agreement and deducted in whole
or in part if not required

Carried Forward

Section No. 7

SECTION NO.7 - PROVISIONAL SUMS

Bill No. 1

Provisional Sums

JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)

R

	Brought Forward		R	
	<u>Preliminaries</u> The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Sums" <u>General</u> Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement building contract and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances -----			
	<u>PROVISIONAL SUMS</u>			
	<u>ARTWORK & SIGNAGE</u>			
A	Provide the sum of R30 000.00 (Thirty Thousand Rand) for servicing and repairs to library turnstiles, anti theft equipment and access control	Item		
B	Allow for profit	Item		
C	Allow for attendance	Item		
	<u>COMMUNITY LIAISON OFFICER (CLO)</u>			
D	Provide the sum of R60 000.00 (Sixty Thousand Rand) for the Community Liaison Officer (CLO) salary, including cell phone allowance	Item		
E	Allow for profit	Item		
F	Allow for attendance	Item		
	Carried to Final Summary		R	

**MAINTENANCE AND RENOVATIONS TO
ENNERDALE LIBRARY**

Section No. 7
SECTION NO.7 - PROVISIONAL SUMS
Bill No. 1
Provisional Sums
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSHCO)

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	SECTION NO.1 - PRELIMINARIES	31	
2	SECTION NO.2 - MAIN LIBRARY	62	
3	SECTION NO.3 KITCHEN AND ABLUTIONS	75	
4	SECTION NO.4 ADMINISTRATIVE AREAS	87	
5	SECTION NO.5 HALL & TUCKSHOP	91	
6	SECTION NO.6 EXTERNAL WORKS	93	
7	SECTION NO.7 - PROVISIONAL SUMS	95	
	Sub-total (A)		R
	<u>ADD THE FOLLOWING ANNEXURES</u>		
	Electrical Installations	Item	
	Mechanical and Fire Installations	Item	
	<u>CONTINGENCIES</u>		
	Provide the sum of R850 000.00 (Eight Hundred and Fifty Thousand Rands) for contingencies to be expended as directed by the Principal Agent		
	Sub-total (B)	Item	R

MAINTENANCE AND RENOVATIONS TO ENNERDALE LIBRARY

Add Value Added Tax 15% (fifteen percent)			R
Carried to Form of Tender			R
JOHANNESBURG SOCIAL HOUSING COMPANY(JOSH CO)			

SECTION A: BILL PREAMBLES & BILL OF QUANTITIES

GENERAL NOTES

- 1 This Bill of Quantities forms part of, and must be read in conjunction with the specification
- 2 The quantities given in the Bill for cables, cable markers, earth wire laid with cables, overhead conductors, overhead earth wires and excavations cannot be regarded as exact and are subject to measurement on site after completion of the service and adjustments will be made according to the unit rates given in the bill.

In the event of discrepancies between the drawings, specifications and Bill of Quantities, the Department shall decide whether the work as executed shall be remeasured on site or whether re-measurement shall be effected from the working drawings only.

NOTE:

Checking of Cable Lengths

Notwithstanding the fact that the lengths of cables as given in the Bill of Quantities have been measured from scaled drawings, the contractor shall check such lengths on site before ordering the cable as he / she will not be paid for excess cables after the completion of the service. Any allowance for off-cuts shall be made in the unit rates. The final measurements shall be based on the nett route length of the cables and overhead lines concerned.

Checking of quantities for other materials

Notwithstanding the fact that the quantities for cables and accessories given in the Bill of Quantities have been measured from drawings, the contractor shall check such lengths on site before ordering the cable as he/she will not be paid for excess quantities after the completion of the service. Any ambiguous or dubious wording or quantities must be cleared with the responsible Engineer before work is started. Wrong interpretation of the specification and/or drawings and Bill of Quantities, resulting in alterations and/or additional costs, is solely the responsibility of the contractor.

- 3 Where alternative prices for the switchgear of different manufacture are quoted the lowest alternative price for switchgear as per the specification must be quoted against the relevant item in the Bill of Quantities. The remaining alternative prices must be furnished separately.
- 4 The unit prices quoted in the Bill of Quantities must include for such small installation materials as are required for the complete installation in accordance with the specification.
- 5 All equipment, components and material shall be new, unused and best quality and shall comply with the relevant current specifications of the SABS, SANS and as stated in this document, wherever possible, be of South African manufacture.
- 6 No alteration, erasure or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made, it will not be recognised but the original wording of the Bill of Quantities will be adhered to.
- 7 The Engineer will check the completed Bill of Quantities and reserves the right to adjust any individual price and to rectify any discrepancy whilst the total tender price as quoted remains unaltered.
- 8 Electrical materials associated with the external reticulation, for example termination accessories and wiring accessories, will not be re-measurable and the tenderer must therefore allow for the supply of all necessary accessories of materials for the successful execution and completion of the installation.
- 9 The unit rate for each item in the Bill of Quantities shall include for all materials, labour, profit, transport, etc., everything necessary for the execution and complete installation of the work in accordance with the description of the works.
- 10 The Bills of Quantities shall not be used for ordering purposes. The contractor shall check the lengths of cables, overhead conductors on site before ordering any of these materials. Any allowance for off-cuts of cables shall be made in the unit rates.
- 11 The rates shall exclude Value-Added Tax (VAT) and the total carried over to the final summary.
- 12 The contractor is required to label all kiosks and mini-substations, supply and install all danger warning signs etc and all costs shall be deemed to have been provided for and included in the unit rates and sum amounts tendered for the items scheduled in the Bill of Quantities and separate additional payment will not be made.
- 13 Black ink shall be used for pricing the document, any other prices marked in other colours or pencil shall not be considered for the total price of the bill.

Item	Description	Unit	Qty	Rate	Amount
1	BILL 1: RETICULATION AND DISTRIBUTION BOARDS				
1.1	Distribution Boards Distribution boards complete with all MCBs, switchgear, accessories, sheet metal frames, sub-frames, busbars, terminals, wiring, conduit terminations, labelling, fixtures and fittings as specified, with all equipment fitted and equipped in factory all strictly as per schematic diagram. (Please note that the distribution board's shop drawing should be submitted to the Engineer for approval prior to manufacture).				
	DB - 1 (100A TP Mains)				
1.1.1	Supply	No.	1		
1.1.2	Install	No.	1		
	DB - 2 (60A TP Mains)				
1.1.3	Supply	No.	1		
1.1.4	Install	No.	1		
1.2	Low voltage cables 600/1 000V PVC/PVC/SWA/PVC multi-core copper cable installed in sleeves (sleeves measured elsewhere)				
	70mm ² 4 Core (DB - 1)				
1.2.1	Supply	m	160		
1.2.2	Install	m	160		
	35mm ² 4 Core (DB - 2)				
1.2.3	Supply	m	100		
1.2.4	Install	m	100		
1.3	Low voltage cable terminations (Glands & Shrouds) Make off and terminate the LV cable, complete with glands and shrouds including connection of cable to equipment terminals				
	70mm ² 4 Core (No. 4)				
1.3.1	Supply	No.	6		
1.3.2	Install	No.	6		
	35mm ² 4 Core (No. 3)				
1.3.3	Supply	No.	6		
1.3.4	Install	No.	6		
1.4	Low voltage cable terminations (Lugs) Make off and terminate the LV cable, complete with glands and shrouds including connection of cable to equipment terminals				
	70mm ² x 10mm				
1.4.1	Supply	No.	24		
1.4.2	Install	No.	24		
	35mm ² x 10mm				
1.4.3	Supply	No.	24		
1.4.4	Install	No.	24		
1.5	Earthing Conductors Bare stranded copper earth conductor installed in sleeves (sleeves measured elsewhere)				
	35mm ²				
1.5.1	Supply	m	160		
1.5.2	Install	m	160		
	25mm ²				
1.5.3	Supply	m	100		

1.5.4	Install	m	100		
	Carried forward to next page				

Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
1.6	Earthing conductor terminations Make off and terminate earth conductor, including lugs and connections 35mm ² x 10mm				
1.6.1	Supply	No.	12		
1.6.2	Install	No.	12		
	25mm ² x 8mm				
1.6.3	Supply	No.	12		
1.6.4	Install	No.	12		
1.7	Galvanised steel conduits Galvanised steel conduit including bending, short lengths, draw boxes, cutting, bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void. 20mm				
1.7.1	Supply	m	400		
1.7.2	Install	m	400		
1.8	Galvanised boxes Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates. 20mm				
1.8.1	Supply	No.	40		
1.8.2	Install	No.	40		
1.9	Light fittings SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed/retrofitted to fit existing poles and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings. Type D: Surface mounted functional floodlight fitting c/w die-cast LM6 aluminium powder coated housing, 4mm heat tampered safety front glass cover, 79W LED lamp, 14 247 lumens, IP66 and electronic control gear.				
1.9.1	Supply	No.	6		
1.9.2	Install	No.	6		
	Type BL: LED wallmounted bollard luminaire c/w acrylonitrile styrene acrylate (ASA) top cover, high pressure powder coated die-cast aluminium base and gear plate, high impact acrylic protector, 54W LED lamp, 9 335 lumens, IP66, electronic control gear and 3.6m galvanised steel pole.				

1.9.3		Supply	No.	16		
1.9.4		Install	No.	16		
1.10	Photocell					
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified					
	16A, 230V, Photocell					
1.10.1		Supply	No.	4		
1.10.2		Install	No.	4		
	Carried forward to next page					

Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
1.11	Testing and commissioning				
1.11.1	Testing and commissioning of the works covered within this bill.	Item	1		
1.12	Documentation				
1.12.1	Provision of the As-built drawings for the works covered within this bill showing all cable routes, conduit routes, etc	Item	1		
1.12.2	Provision of the Operation and Maintenance manuals for the works covered within this bill including conducting User's training	Item	1		
1.12.3	Provision of the Certificates of Compliance upon completion for the works covered within this bill.	Item	1		
1.13	Guarantee				

1.13.1	12 month equipment and installation guarantee on the works covered within this bill.The guarantee period commences on the day of successful handing over of the building to the Client.	Item	1		
	CARRIED FORWARD TO SUMMARY PAGE				

Item	Description	Unit	Qty	Rate	Amount
2	<u>BILL 2: ADULT SECTION - ELECTRICAL INSTALLATIONS</u>				
2.1	Galvanised Steel Conduits Galvanised steel conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void. 20mm				
2.1.1	Supply	m	1200		

2.1.2		Install	m	1200		
	25mm					
2.1.3		Supply	m	900		
2.1.4		Install	m	900		
2.2	Galvanised Steel Round Boxes					
	Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
	20mm					
2.2.1		Supply	No.	360		
2.2.2		Install	No.	360		
	25mm					
2.2.3		Supply	No.	298		
2.2.4		Install	No.	298		
2.3	Galvanised boxes					
	Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
	100 x 50 x 50mm					
2.3.1		Supply	No.	50		
2.3.2		Install	No.	50		
	100 x 100 x 50mm					
2.3.3		Supply	No.	90		
2.3.4		Install	No.	90		
2.4	Power skirting					
	Galvanised steel epoxy powder coated power skirting complete with separate straight cover plates					
	2-Compartment 2-Cover					
2.4.1		Supply	m	36		
2.4.2		Install	m	36		
2.5	Power skirting Accessories					
	Galvanised steel epoxy powder coated power skirting accessories					
	2-Compartment 2-Cover Elbows					
2.5.1		Supply	No.	12		
2.5.2		Install	No.	12		
	2-Compartment 2-Cover End Caps					
2.5.3		Supply	No.	4		
2.5.4		Install	No.	4		
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Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				

2.6	Underfloor Trunking Galvanised steel epoxy powder coated underfloor trunking complete with separate straight cover plates 2-Compartment 2-Cover underfloor trunking				
2.6.1		Supply	m	18	
2.6.2		Install	m	18	
2.7	Underfloor Trunking Accessories Galvanised steel epoxy powder coated underfloor trunking accessories 2-Compartment 2-Cover Elbows				
2.7.1		Supply	No.	4	
2.7.2		Install	No.	4	
	2-Compartment 2-Cover Connectors				
2.7.3		Supply	No.	2	
2.7.4		Install	No.	2	
	2-Compartment 2-Cover End Caps				
2.7.5		Supply	No.	2	
2.7.6		Install	No.	2	
2.8	Power Pole Galvanised steel epoxy powder coated 2.8m power poles complete with separate straight cover plates 2-Compartment 2-Cover Power Pole				
2.8.1		Supply	No	2	
2.8.2		Install	No	2	
2.9	Powerpole Accessories Aluminium powerpole accessories 16A powerpole socket outlet cover				
2.9.1		Supply	No.	8	
2.9.2		Install	No.	8	
	Krone/Data outlet cover				
2.9.3		Supply	No.	4	
2.9.4		Install	No.	4	
2.10	Wiring Channels P9000 wiring channel c/w all installation accessories				
2.10.1		Supply	m	500	
2.10.2		Install	m	500	
	P9000 Internal Splices				
2.10.3		Supply	No	190	
2.10.4		Install	No	190	
	P9000, 90 Degree Bends				
2.10.5		Supply	No	16	
2.10.6		Install	No	16	
	P9000, Tee Bends				
2.10.7		Supply	No	12	
2.10.8		Install	No	12	
	P9000, DB Outlet				
2.10.9		Supply	No	4	

2.10.10	Install	No	4		
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Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
2.11	PVC insulated conductors 600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm ²				
2.11.1	Supply	m	6000		
2.11.2	Install	m	6000		
	4.0 mm ²				
2.11.3	Supply	m	4000		
2.11.4	Install	m	4000		
	6.0 mm ²				
2.11.5	Supply	m	1000		
2.11.6	Install	m	1000		
2.12	Bare copper earth conductors Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm ²				
2.12.1	Supply	m	5000		
2.12.2	Install	m	5000		
	4.0 mm ²				
2.12.3	Supply	m	500		
2.12.4	Install	m	500		
2.13	Socket outlets Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc 16A, 230V, 3-pin single switched socket outlet, flush wall mounted with steel coverplate complying to SANS 164-1 and SANS 164-2				
2.13.1	Supply	No.	24		
2.13.2	Install	No.	24		
	16A, 230V, 3-pin dedicated single switched socket outlet with shaved earth pin, flush wall mounted with steel coverplate, complying to SANS 164-1 and SANS 164-2				
2.13.3	Supply	No.	12		
2.13.4	Install	No.	12		
	16A, 230V, 3-pin dedicated single switched socket outlet with shaved earth pin, powerskirting trunking mounted with steel coverplate, complying to SANS 164-1 and SANS 164-2				
2.13.5	Supply	No.	16		
2.13.6	Install	No.	16		
	16A, 230V, 3-pin dedicated single switched socket outlet with shaved earth pin, powerpole mounted with steel coverplate, complying to SANS 164-1 and SANS 164-2				

2.13.7		Supply	No.	30		
2.13.8		Install	No.	30		
2.14	Isolators Isolator complete with box, cover plate and accessories. 20A DP Single phase isolator, flush mounted					
2.14.1		Supply	No.	22		
2.14.2		Install	No.	22		
	Carried forward to next page					

Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
2.15	Light switches Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes,drilling, etc inclusive of termination of circuit wiring onto switch terminals. 16A, 230V, 1 Lever 2 Way with steel coverplate				
2.15.1		Supply	No.	2	
2.15.2		Install	No.	2	
	16A, 230V, 2 Lever 2 Way with steel coverplate				
2.15.3		Supply	No.	4	
2.15.4		Install	No.	4	
2.16	Light fittings SABS approved light fittings as per the specification, complete with lamps,machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings. Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm ² flexible cabtyre with a 5 amp 3 pin plug top fitted. Type F12: 1200 x 600mm recessed LED panel light fitting c/w 50W, LED, 5 907 lumens, IP40, 2m x 0.75mm ² flex cable, 5A unswitched socket outlet, 5A plug top, aluminium louvre and electronic control gear.				
2.16.1		Supply	No.	146	
2.16.2		Install	No.	146	
2.17	Testing and commissioning				
2.17.1	Testing and commissioning of the works covered within this bill.	Item	1		
2.18	Documentation				
2.18.1	Provision of the As-built drawings for the works covered within this bill showing all cable routes, conduit routes, etc	Item	1		
2.18.2	Provision of the Operation and Maintenance manuals for the works covered within this bill including conducting User's training	Item	1		
2.18.3	Provision of the Certificates of Compliance upon completion for the works covered within this bill.	Item	1		
2.19	Guarantee				

2.19.1	12 month equipment and installation guarantee on the works covered within this bill. The guarantee period commences on the day of successful handing over of the building to the Client.	Item	1		
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Item	Description	Unit	Qty	Rate	Amount
3	<u>BILL 3: KIDDIES SECTION - ELECTRICAL INSTALLATIONS</u>				
3.1	Galvanised Steel Conduits Galvanised steel conduit including bending, short lengths, draw boxes, cutting, bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.				
	20mm				
3.1.1	Supply	m	600		
3.1.2	Install	m	600		
	25mm				
3.1.3	Supply	m	400		
3.1.4	Install	m	400		
3.2	Galvanised Steel Round Boxes Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.				
	20mm				
3.2.1	Supply	No.	60		
3.2.2	Install	No.	60		
	25mm				
3.2.3	Supply	No.	40		
3.2.4	Install	No.	40		

3.3	Galvanised boxes				
	Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.				
	100 x 50 x 50mm				
3.3.1		Supply	No.	4	
3.3.2		Install	No.	4	
	100 x 100 x 50mm				
3.3.3		Supply	No.	2	
3.3.4		Install	No.	2	
3.4	Power skirting				
	Galvanised steel epoxy powder coated power skirting complete with separate straight cover plates				
	2-Compartment 2-Cover				
3.4.1		Supply	m	60	
3.4.2		Install	m	60	
3.5	Power skirting Accessories				
	Galvanised steel epoxy powder coated power skirting accessories				
	2-Compartment 2-Cover Elbows				
3.5.1		Supply	No.	6	
3.5.2		Install	No.	6	
	2-Compartment 2-Cover End Caps				
3.5.3		Supply	No.	4	
3.5.4		Install	No.	4	
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Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				R
3.6	Underfloor Trunking				
	Galvanised steel epoxy powder coated underfloor trunking complete with separate straight cover plates				
	2-Compartment 2-Cover underfloor trunking				
3.6.1		Supply	m	6	
3.6.2		Install	m	6	
3.7	Underfloor Trunking Accessories				
	Galvanised steel epoxy powder coated underfloor trunking accessories				
	2-Compartment 2-Cover Elbows				
3.7.1		Supply	No.	1	
3.7.2		Install	No.	1	
	2-Compartment 2-Cover Tees				
3.7.3		Supply	No.	1	
3.7.4		Install	No.	1	
	2-Compartment 2-Cover End Caps				
3.7.5		Supply	No.	1	
3.7.6		Install	No.	1	

3.8	Power Pole Galvanised steel epoxy powder coated 2.8m power poles complete with separate straight cover plates 2-Compartment 2-Cover Power Pole				
3.8.1		Supply	No	2	
3.8.2		Install	No	2	
3.9	Powerpole Accessories Aluminium powerpole accessories 16A powerpole socket outlet cover				
3.9.1		Supply	No.	8	
3.9.2		Install	No.	8	
	Krone/Data outlet cover				
3.9.3		Supply	No.	4	
3.9.4		Install	No.	4	
3.10	Wiring Channels P9000 wiring channel c/w all installation accessories				
3.10.1		Supply	m	100	
3.10.2		Install	m	100	
	P9000 Internal Splices				
3.10.3		Supply	No	60	
3.10.4		Install	No	60	
	P9000 90Degree Bends				
3.10.5		Supply	No	6	
3.10.6		Install	No	6	
	P9000 Tee Bends				
3.10.7		Supply	No	4	
3.10.8		Install	No	4	
	P9000 DB Outlets				
3.10.9		Supply	No	2	
3.10.10		Install	No	2	
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Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
3.11	PVC insulated conductors 600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm ²				
3.11.1		Supply	m	2000	
3.11.2		Install	m	2000	
	4.0 mm ²				
3.11.3		Supply	m	1800	

3.11.4		Install	m	1800		
	6.0 mm ²					
3.11.5		Supply	m	400		
3.11.6		Install	m	400		
3.12	Bare copper earth conductors Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm ²					
3.12.1		Supply	m	1900		
3.12.2		Install	m	1900		
	4.0 mm ²					
3.12.3		Supply	m	200		
3.12.4		Install	m	200		
3.13	Socket outlets Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc 16A, 230V, 3-pin single switched socket outlet, flush wall mounted with steel coverplate complying to SANS 164-1 and SANS 164-2					
3.13.1		Supply	No.	2		
3.13.2		Install	No.	2		
	16A, 230V, 3-pin dedicated single switched socket outlet with shaved earth pin, flush wall mounted with steel coverplate, complying to SANS 164-1 and SANS 164-2					
3.13.3		Supply	No.	2		
3.13.4		Install	No.	2		
	16A, 230V, 3-pin dedicated single switched socket outlet with shaved earth pin, powerskirting trunking mounted with steel coverplate, complying to SANS 164-1 and SANS 164-2					
3.13.5		Supply	No.	40		
3.13.6		Install	No.	40		
3.14	Isolators Isolator complete with box, cover plate and accessories. 20A DP Single phase isolator, flush mounted					
3.14.1		Supply	No.	2		
3.14.2		Install	No.	2		
3.15	Light switches Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes,drilling, etc inclusive of termination of circuit wiring onto switch terminals. 16A, 230V, 1 Lever 2 Way with steel coverplate					
3.15.1		Supply	No.	2		
3.15.2		Install	No.	2		
	16A, 230V, 2 Lever 2 Way with steel coverplate					
3.15.3		Supply	No.	2		
3.15.4		Install	No.	2		
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Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				

3.16	Light fittings SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings. Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm² flexible cabtyre with a 5 amp 3 pin plug top fitted. Type F12: 1200 x 600mm recessed LED panel light fitting c/w 50W, LED, 5 907 lumens, IP40, 2m x 0.75mm² flex cable, 5A unswitched socket outlet, 5A plug top, aluminium louvre and electronic control gear.				
3.16.1	Supply	No.	36		
3.16.2	Install	No.	36		
3.17	Testing and commissioning				
3.17.1	Testing and commissioning of the works covered within this bill.	Item	1		
3.18	Documentation				
3.18.1	Provision of the As-built drawings for the works covered within this bill showing all cable routes, conduit routes, etc	Item	1		
3.18.2	Provision of the Operation and Maintenance manuals for the works covered within this bill including conducting User's training	Item	1		
3.18.3	Provision of the Certificates of Compliance upon completion for the works covered within this bill.	Item	1		
3.19	Guarantee				
3.19.1	12 month equipment and installation guarantee on the works covered within this bill. The guarantee period commences on the day of successful handing over of the building to the Client.	Item	1		

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Item	Description	Unit	Qty	Rate	Amount
4	<u>BILL 4: ADMIN SECTION - ELECTRICAL INSTALLATIONS</u>				
4.1	Galvanised Steel Conduits Galvanised steel conduit including bending, short lengths, draw boxes, cutting, bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void. 20mm				
4.1.1	Supply	m	900		
4.1.2	Install	m	900		
	25mm				
4.1.3	Supply	m	700		
4.1.4	Install	m	700		
4.2	Galvanised Steel Round Boxes Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary. 20mm				
4.2.1	Supply	No.	100		
4.2.2	Install	No.	100		
	25mm				
4.2.3	Supply	No.	70		
4.2.4	Install	No.	70		
4.3	Galvanised boxes Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates. 100 x 50 x 50mm				
4.3.1	Supply	No.	60		
4.3.2	Install	No.	60		
	100 x 100 x 50mm				
4.3.3	Supply	No.	40		
4.3.4	Install	No.	40		
4.4	Power skirting Galvanised steel epoxy powder coated power skirting complete with separate straight cover plates 2-Compartment 2-Cover				
4.4.1	Supply	m	64		
4.4.2	Install	m	64		
4.5	Power skirting Accessories Galvanised steel epoxy powder coated power skirting accessories 2-Compartment 2-Cover Elbows				
4.5.1	Supply	No.	8		
4.5.2	Install	No.	8		
	2-Compartment 2-Cover End Caps				
4.5.3	Supply	No.	6		

4.5.4	Install	No.	6		
Carried forward to next page					

Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
4.6	Underfloor Trunking Galvanised steel epoxy powder coated underfloor trunking complete with separate straight cover plates 2-Compartment 2-Cover underfloor trunking				
4.6.1	Supply	m	6		
4.6.2	Install	m	6		
4.7	Underfloor Trunking Accessories Galvanised steel epoxy powder coated underfloor trunking accessories 2-Compartment 2-Cover Elbows				
4.7.1	Supply	No.	2		
4.7.2	Install	No.	2		
	2-Compartment 2-Cover Tees				
4.7.3	Supply	No.	2		
4.7.4	Install	No.	2		
	2-Compartment 2-Cover End Caps				
4.7.5	Supply	No.	2		
4.7.6	Install	No.	2		
4.8	Wiring Channels P9000 wiring channel c/w all installation accessories				
4.8.1	Supply	m	200		
4.8.2	Install	m	200		
	P9000 Internal Splices				
4.8.3	Supply	No	80		
4.8.4	Install	No	80		
	P9000 90Degree Bends				
4.8.5	Supply	No	8		
4.8.6	Install	No	8		
	P9000 Tee Bends				
4.8.7	Supply	No	4		
4.8.8	Install	No	4		
	P9000 DB Outlets				
4.8.9	Supply	No	2		
4.8.10	Install	No	2		
4.9	PVC insulated conductors 600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm ²				
4.9.1	Supply	m	4000		
4.9.2	Install	m	4000		
	4.0 mm ²				
4.9.3	Supply	m	3000		

4.9.4	6.0 mm ²	Install	m	3000		
4.9.5		Supply	m	1000		
4.9.6		Install	m	1000		
4.10	Bare copper earth conductors Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm ²					
4.10.1		Supply	m	3500		
4.10.2		Install	m	3500		
	Carried forward to next page					

Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
4.10.3	4.0 mm ²	Supply	m	500	
4.10.4		Install	m	500	
4.11	Socket outlets Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc 16A, 230V, 3-pin single switched socket outlet, flush wall mounted with steel coverplate complying to SANS 164-1 and SANS 164-2				
4.11.1		Supply	No.	44	
4.11.2		Install	No.	44	
4.11.3	16A, 230V, 3-pin dedicated single switched socket outlet with shaved earth pin, flush wall mounted with steel coverplate, complying to SANS 164-1 and SANS 164-2	Supply	No.	16	
4.11.4		Install	No.	16	
4.12	Isolators Isolator complete with box, cover plate and accessories. 20A DP Single phase isolator, flush mounted				
4.12.1		Supply	No.	22	
4.12.2		Install	No.	22	
4.13	Light switches Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes,drilling, etc inclusive of termination of circuit wiring onto switch terminals. 16A, 230V, 1 Lever 2 Way with steel coverplate				
4.13.1		Supply	No.	22	
4.13.2		Install	No.	22	
4.13.3	16A, 230V, 2 Lever 2 Way with steel coverplate	Supply	No.	12	
4.13.4		Install	No.	12	
4.13.5	16A, 230V, 3 Lever 2 Way with steel coverplate	Supply	No.	4	
4.13.6		Install	No.	4	

4.14	Light fittings SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings. Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm ² flexible cable with a 5 amp 3 pin plug top fitted. Type A21: Recessed LED downlight fitting, c/w 15W LED lamp, IP20, 1783 lumens, warm white 4 000K, electronic control gear, 3m x 1.5mm ² 3Core Flex Cable, 5A Unswitched Socket Outlet, Plug Top and control gear.				
4.14.1	Supply	No.	15		
4.14.2	Install	No.	15		
	Type C: Round bulkhead light fitting with unbreakable polycarbonate diffuser c/w 15W, LED lamp, 2592 lumens, IP65 and electronic control gear.				
4.14.3	Supply	No.	18		
4.14.4	Install	No.	18		
	Type F12: 1200 x 600mm recessed LED panel light fitting c/w 50W, LED, 5 907 lumens, IP40, 2m x 0.75mm ² flex cable, 5A unswitched socket outlet, 5A plug top, aluminium louvre and electronic control gear.				
4.14.5	Supply	No.	50		
4.14.6	Install	No.	50		
	Carried forward to next page				

Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
4.15	Testing and commissioning				
4.15.1	Testing and commissioning of the works covered within this bill.	Item	1		
4.16	Documentation				
4.16.1	Provision of the As-built drawings for the works covered within this bill showing all cable routes, conduit routes, etc	Item	1		
4.16.2	Provision of the Operation and Maintenance manuals for the works covered within this bill including conducting User's training	Item	1		
4.16.3	Provision of the Certificates of Compliance upon completion for the works covered within this bill.	Item	1		
4.17	Guarantee				

4.17.1	12 month equipment and installation guarantee on the works covered within this bill.The guarantee period commences on the day of successful handing over of the building to the Client.	Item	1		
	CARRIED FORWARD TO SUMMARY PAGE				
Item	Description	Unit	Qty	Rate	Amount

5	<u>BILL 5: EARTHING & LIGHTNING PROTECTION SYSTEM INSTALLATIONS</u> Allowance should be made for the following electrical equipment. 70mm² PVC stranded copper conductor 600V/1000V grade drawn in conduit down conductors shall be bonded to steel roof with M6 20mm long brass bolts, nuts and washers. Copper conductor shall be equipped with hexagon crimped lig for bonding/termination. 70mm² bare stranded copper conductor laid in trench for the creation of ring earth electrode in trench, 800mm below ground. 8mm diameter solid aluminium round conductor surface mounted on aluminium guides Joint between dissimilar materials to be done by crimping lugs on the two types of materials and bond the lugs with M6 20mm long brass bolts, nuts and washers. Earth electrodes to be extensible copper clad steel rods 12mm diameter and 1500mm long driven into the ground to a depth of not less than 600mm below finished ground level. Bonding between stranded copper conductors and earth electrodes to be done by CAD weld method. Bonding to steel reinforcing to be done with a U clamp, the copper conductor to be equipped with a lug. Test points to be created between down conductors and earth electrode conductors equipped with lugs and bonded with M6 20mm long brass bolts, nuts and washers. Site survey to be done prior to the installation and the soil resistivity shall be measured, the prevailing site conditions checked and a proposal submitted to the Engineer regarding the type of earthing. Draw boxes, conduits equipped with draw wire placed in position for casting into concrete or screed, for building in or chased into concrete or brickwork and for surface mounted in ceiling voids including bending, threading, jointng, short lengths, draw boxes, couplings, bends, tees and saddles, etc. as specified.						
5.1	Conduct soil resistivity tests and submit results	Item		1			
	32mm diameter PVC conduit built into brickwork/ installed in ground						
5.2		Supply	m	100			
5.3		Install	m	100			
	70mm² PVC insulated copper down conductor						
5.4		Supply	m	80			
5.5		Install	m	80			
	Test points between down conductor and earth electrode conductor installed complete with lugs, bolts, nuts and washers as specified.						
5.6		Supply	No.	24			
5.7		Install	No.	24			
	Bonding of down conductors to roof sheetings installed complete with lugs, bolts, nuts and washers as specified.						
5.8		Supply	No.	24			
5.9		Install	No.	24			
	Bonding of earth electrode conductors to earth electrodes installed complete with CAD weld, lugs, bolts, nuts and washers as specified.						
5.10		Supply	No.	24			
5.11		Install	No.	24			

	Carried forward to next page				
Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
5.12	12mm diameter 1500mm long extensible earth electrode complete installed 600mm below finished ground level	Supply	No.	24	
5.13		Install	No.	24	
5.14	16mm Diameter x 500mm Air discharge copper conductor	Supply	No.	24	
5.15		Install	No.	24	
5.16	Connection/test terminal on column inclusive of termination materials	Supply	No.	24	
5.17		Install	No.	24	
5.18	Allow for any other cost you may deem necessary to complete the installation of the lightning protection system.	Item	1		
5.19	Testing and Commissioning	Sum	1		

5.20	Issue earth resistance test certificate	Sum	1		
CARRIED FORWARD TO SUMMARY PAGE					

Item	Description	Page No.	Amount
6	SUMMARY PAGE		
6.1	BILL 1: RETICULATION AND DISTRIBUTION BOARDS	2	
6.2	BILL 2: ADULT SECTION - ELECTRICAL INSTALLATIONS	5	
6.3	BILL 3: KIDDIES SECTION - ELECTRICAL INSTALLATIONS	5	
6.4	BILL 4: ADMIN SECTION - ELECTRICAL INSTALLATIONS	5	
6.5	BILL 5: EARTHING & LIGHTNING PROTECTION SYSTEM INSTALLATIONS	7	

	TOTAL CARRIED OVER TO FINAL SUMMARY PART A: BUILDING WORKS (EXCLUDING VAT)		

SUBJECT : BILL OF QUANTITIES					
ENNERDALE COMMUNITY LIBRARY					
BILL NO. 1					
Item	Description	Unit	Quantity	Rate	Amount
1.0	<u>Bill No. 1</u>				
1.1	<u>SPLIT AIR CONDITIONING UNITS</u>				
	Supply 3 kW cooling capacity mid wall type split air con unit, heat pump type complete with insulated piping, drain pipe, condensate pump, cabling, cooling coil, 3 way valve/balancing valve, isolating valves, grille, filter, condensate drain pan, controls, outdoor unit and all essential auxiliaries for a fully functional installation	No	5	R	R
	Install 3 kW cooling capacity mid wall type split air con unit, heat pump type complete with insulated piping, drain pipe, condensate pump, cabling, cooling coil, 3 way valve/balancing valve, isolating valves, grille, filter, condensate drain pan, controls, outdoor unit and all essential auxiliaries for a fully functional installation	No	5	Included above	
1.2	Controls				
	Supply wall mounted wire controls	No.	5	R	R
	Install wall mounted wire controls	No.	5	R	R
	<u>FIRE PROTECTION</u>				
1.3	<u>FIRE MAIN RING</u>				
	Supply and install 110mm internal Ø HDPE Class 12 underground fire ringmain complete with all joints and fittings to facilitate fire hydrants and booster connections from municipal water mains				
	Supply	m	300	R	R
	Install	m	300	Included above	
	Supply and install fittings	No.	20	R	R
1.4	<u>FIRE HYDRANT AND BOOSTER CONNECTION</u>				
	Supply and install 100mm internal Ø riser with 2 x 65mm female instantaneous Outlets and 2 x 65mm Male Booster Connections at the entrance to the multi-purpose hall premises to facilitate Fire Services Access to water. This must be connected inline with the fire water reticulation system after the municipal connection. Including 2 x Isolating valves and a Non return valves + pressure gauge				
	Supply	No	1	R	R
	Install	No	1	R	R
1.5	<u>FIRE HYDRANTS</u>				
	Supply and install pillar type fire hydrant (Shrouded Shaft Type) with 65mm Female instantaneous coupling outlet				
	Supply	No	2	R	R
	Install	No	2	Included above	
	Fire hydrant pedestal comprising of unreinforced concrete 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall including necessary excavations, formwork and two coats of paint to exposed surfaces				
	Supply	No	2	R	R
	Install	No	2	Included above	
1.6	<u>FIRE HOSE REEL FEEDER SUPPLY PIPING</u>				
	Supply and install galvanised 32mm internal Ø feeder supply to 30 meter fire hoses complete with all joints and fittings.				
	Supply 32 mm diameter	m	20	R	R
	Install 32 mm diameter	m	20	Included above	

1.7	FIRE HOSE REEL CONNECTION PIPING				
	Supply and install galvanised 25 mm internal ø connection piping to 30 meter fire hoses complete with all joints and fittings.				
	Supply	m	2		
	Install	m	2	Included above	
	Carried Forward				R

Item	Description	Unit	Quantity	Rate	Amount
ENNERDALE COMMUNITY LIBRARY BILL NO. 1					

Item	Description	Unit	Quantity	Rate	Amount
	Brought Forward				R

1.8	FIRE HOSE REELS				
	Hose reel complete with 30m x 19mm diameter rubber hose chromium plated stopcock, shut-off nozzle and wall bracket.				
	Supply	No	2	R	R
	Install	No	2	Included above	
	Hose reel cabinet according to SABS 1475 Regulations				
	Supply	No	2	R	R
	Install	No	2	Included above	
1.9	Miscellaneous				
	Ancillaries, e.i. joints and etc				
	Supply 25mm fittings	No	10	R	R
	Install 25mm fittings	No	10	Included above	
	Supply 32mm bend	No	20	R	R
	Install 32mm bend	No	20	Included above	
	Supply 32mm union	No	20	R	R
	Install 32mm union	No	20	Included above	
	Supply 32mm tee / reducing tee	No	2	R	R
	Install 32mm tee / reducing tee	No	2	Included above	
1,10	FIRE EXTINGUISHERS				
	5 kg Carbon dioxide fire extinguisher				
	Supply	No	10	R	R
	Install	No	10	Included above	
	Bracket for Fire Extinguisher complete				
	Supply	No	10	R	R
	Install	No	10	Included above	
1,11	FIRE BOOSTER PUMP				
	Supply 120 litre/min 400 Kpa fire booster pump complete with control panel plus all auxiliary equipment and plinth	No	2	R	R
	Install 120 litre/min 400 Kpa fire booster pump complete with control panel plus all auxiliary equipment and plinth	No	2	R	R
	Supply Shut off valves DN 50	No	4	R	R
	Install Shut off valves DN 50	No	4	R	R
	Supply Strainer DN 50	No	2	R	R
	Install Strainer DN 50	No	2	R	R

	Supply Dial pressure gauge, up to 600 kPa, 100 mm dia	No	2		
	Install Dial pressure gauge, up to 600 kPa, 100 mm dia	No	2		
	Supply pressure Switch	No	2		
	Install pressure Switch	No	2		
	Supply Drain valve + piping DN 32	No	2		
	Install Drain valve + piping DN 32	No	2		
	Supply Non return valve Ø 65	No	2		
	Install Non return valve Ø 65	No	2		
	Supply Flexible Coupling	No	6		
	Install Flexible Coupling	No	6		
	Supply 50 mm diameter header including flanges (Length = 2 m)	No	2		
	Install 50 mm diameter header including flanges (Length = 2 m)	No	2	Included above	
	Supply Piping fittings and accessories	No	Lot		
	Install Piping fittings and accessories	No	Lot		
	Supply 300 litres pressure tank	No	1		
	Install 300 litres pressure tank	No	1		
	Carried Forward				R

Item	Description	Unit	Quantity	Rate	Amount
ENNERDALE COMMUNITY LIBRARY					
BILL NO. 1					
Item	Description	Unit	Quantity	Rate	Amount
	Brought Forward				R
1,12	SYMBOLIC SIGNS (Fire Equipment & Evacuation) NB All signs to be photo luminescent with white background				
	Supply 190 x190mm Double (back to back) E1/E2 (Alluminum Framed with chain) Signs				
	Install 190 x190mm Double (back to back) E1/E2 (Alluminum Framed with chain) Signs	No	5		
	Supply 190 x190mm E1 Signs	No	5		
	Supply 190 x190mm E1 Signs	No	5		
	Supply 190 x190mm E2 Signs	No	5		
	Supply 190 x190mm E2 Signs	No	5		
	Supply 190 x190mm E3 Signs	No	6		
	Supply 190 x190mm E3 Signs	No	6		
	Supply 190 x190mm E6 Signs	No	4		
	Supply 190 x190mm E6 Signs	No	4		
	Supply 190 x190mm Double (back to back) F5 /F6 (Alluminum Framed with chain) Signs				
	Install 190 x190mm Double (back to back) EF5/F6 (Alluminum Framed with chain) Signs	No	4		
	Supply 190 x190mm F4 Signs	No	4		
	Supply 190 x190mm F4 Signs	No	4		

	Supply 190 x190mm F30 Outdoor Signs on a metallic board mounted on a pole	No	2		
	Install 190 x190mm F30 Outdoor Signs on a metallic board mounted on a pole	No	2		
	Supply 190 x190mm F49 Outdoor Signs on a metallic board mounted on a pole	No	1		
	Install 190 x190mm F49 Outdoor Signs on a metallic board mounted on a pole	No	1		
	DOMESTIC WATER				
1,13	Supply and install Geysers				
	150 Litre solar water heater roof mounted water heater including solar heating panel complete with connection points for water inlet and outlet, safety valve connection point, sacrificial anode, spiral element and adjustable thermostat, drip ray, vacuum breakers (all other accessories elsewhere).				
1,14	DOMESTIC WATER PIPING AND FITTINGS (Piping Insulated)	No.	1		
	Supply DN 15 mm pipe	m	40		
	Install DN 15 mm pipe	m	40	Included above	
	Supply DN 22 mm pipe	m	150		R -
	Install DN 22 mm pipe	m	150	Included above	
	Supply DN 25 mm pipe	m	20		
	Install DN 25 mm pipe	m	20	Included above	
	Supply DN 15 mm shut off valves plus flexible hoses	No	14		R -
	Install DN 15 mm shut off valves plus flexible hoses	No	14		
	Supply DN 22 mm shut off valves plus flexible hoses	No	6		
	Install DN 22 mm shut off valves plus flexible hoses	No	6		
	Supply DN 25 mm shut off valves	No	1		
	Install DN 25 mm shut off valves	No	1		
1,15	Supply and install Miscellaneous tee, bents and cross over and etc				
	Supply 15mm fittings	No	50		
	Install 15mm fittings	No	50	Included above	
	Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
ENNERDALE COMMUNITY LIBRARY BILL NO. 1					
Item	Description	Unit	Quantity	Rate	Amount
	Brought Forward				R
	Supply 20mm fittings	No	50		
	Install 20mm fittings	No	50	Included above	
	Supply 25mm fittings	No	20		
	Install 25mm fittings	No	20	Included above	
1,16	Sundries/ Building work	m	100		
	Carefully chase brickwork / concrete exposing damaged piping and / or fitting not exceeding 35mm diameter including making good plaster and paint to match existing on completion (replacement elsewhere).				
	SANITARY DRAINAGE				
	Carefully take out and remove damaged section to uPVC waste pipe and / or fittings, replace with new including holderbats, pipe clips, etc. as necessary and leave in good working order				
1,17	Sanitary piping and fittings (Upvc)				
	Supply and install Ø 32 P or S-Trap	No	0	R	R -

Supply and install Ø 40 P or S-Trap	No	2		
Supply and Install 40mm Shower or bath trap	No	1		
Supply and install Ø 32 bottle Trap	No	0		
Supply and install Ø 40 bottle Trap	No	10		
Attend to and service / fix faulty cistern including replacing all washers, seals, adjusting flushing mechanism, etc. and leave in good working order.	No	1		
Supply and install Ø 40 uPVC Pipe	m	50		
Supply and install Ø 50 uPVC Pipe	m	50		
Supply and install Ø 75 uPVC Pipe	m	0		
Supply and install Ø 110 uPVC Pipe	m	0		
Supply and install 40mm Access lid	No	30		
Supply and install 40mm Single socket	No	5		
Supply and install 40mm Bend	No	5		
Supply and install 40mm Access bend	No	15		
Supply and install 40mm Junction	No	3		
Supply and install 40mm 90° Access junction	No	3		
Supply and install 40mm 135° Access junction	No	3		
Supply and install 40mm Adaptor (male)	No	6		
Supply and install 40mm Adaptor (female)	No	6		
Supply and install 40mm Reducing socket	No	6		
Supply and install 40mm Air vent cowl	No	0		
Supply and install 50mm Access lid	No	0		
Supply and install 50mm Single socket	No	0		
Supply and install 50mm Bend	No	0		
Supply and install 50mm Access bend	No	0		
Supply and install 50mm Junction	No	0		
Supply and install 50mm 90° Access junction	No	0		
Supply and install 50mm 135° Access junction	No	0		
Supply and install 50mm Adaptor (male)	No	0		
Supply and install 50mm Adaptor (female)	No	0		
Supply and install 50mm Reducing socket	No	0		
Carried Forward				R

Item	Description	Unit	Quantity	Rate	Amount
ENNERDALE COMMUNITY LIBRARY BILL NO. 1					
Item	Description	Unit	Quantity	Rate	Amount
	Brought Forward				R
	Supply and install 50mm Air vent cowl	No	0	R	R -
	Supply and install 50mm One-Way vent valve	No	0	R	R -

Supply and install 50mm Two-Way vent valve	No	0		
Supply and install 75mm Access lid	No	0		
Supply and install 75mm Single socket	No	0		
Supply and install 75mm Bend	No	0		
Supply and install 75mm Access bend	No	0		
Supply and install 75mm Junction	No	0		
Supply and install 75mm 90° Access junction	No	0		
Supply and install 75mm 135° Access junction	No	0		
Supply and install 75mm Adaptor (male)	No	0		
Supply and install 75mm Adaptor (female)	No	0		
Supply and install 75mm Reducing socket	No	0		
Supply and install 75mm Air vent cowl	No	0		
Supply and install 75mm One-Way vent valve	No	0		
Supply and install 75mm Two-Way vent valve	No	0		
Supply and install 110mm Access lid	No	6		
Supply and install 110mm Single socket	No	6		
Supply and install 110mm Double socket	No	6		
Supply and install 110mm Bend	No	6		
Supply and install 110mm Access bend	No	8		
Supply and install 110mm Access bend with vent horn	No	3		
Supply and install 110mm single junction	No	6		
Supply and install 110mm Access single junction	No	3		
Supply and install 110mm reducing junction	No	6		
Supply and install 110mm access reducing junction	No	6		
Supply and install 110mm Double junction	No	5		
Supply and install 110mm Access double junction	No	5		
Supply and install 110mm Double reducing junction	No	5		
Supply and install 110mm Access double reducing junction	No	5		
Supply and install 110 mm PVC flush pipe rubber pan connector and seals	No	5		
Supply and install low level cistern PVC flush pipe, rubber pan connector and seals	No	5		
Supply and install high level cistern PVC flush pipe, rubber pan connector and seal	No	5		
Supply and install 110mm Pan collar	No	5		
Supply and install 110mm Bent pan collar	No	5		
Supply and install 110mm Access bent pan collar	No	5		
Supply and install semi-close coupled cistern PVC flush pipe bend, rubber pan connector and seals	No	5		
Supply and install 110 mm flexible pan connector	No	5		
Supply and install 110 x 50mm Eccentric reducer	No	5		
Supply and install 110mm Air vent cowl	No	3		
Carried Forward				R

Item	Description	Unit	Quantity	Rate	Amount
ENNERDALE COMMUNITY LIBRARY BILL NO. 1					
Item	Description	Unit	Quantity	Rate	Amount
	Brought Forward				R
1.18	Supply and install 110mm One-Way vent valve	No	3	R	R
	Supply and install 110mm Two-Way vent valve	No	3	R	R
	Supply and install 110mm Rodding eye	No	3	R	R
	Supply and install 110 x 45deg RIB junction	No	6	R	R
	Supply and install 110 x 90deg RIB junction	No	6	R	R
	Supply and install 110mm dia end cap	No	3	R	R
	Supply and install 50mm Aluminium Holderbat	No	5	R	R
	Supply and install 75mm Aluminium Holderbat	No	5	R	R
	Supply and install 100mm Aluminium Holderbat	No	5	R	R
	Testing and commissioning				
	Testing and commissioning of all mechanical installations	Lot	Lot	R	R
	Operation of maintenance manuals for all air con units and fans	Lot	Lot	R	R

