Item No		Quantity	Rate	Amount	
	SECTION No.1				
	BILL NO. 1 PRELIMINARIES				
	BUILDING AGREEMENT AND PRELIMINARIES				
	The JBCC Principal Building Agreement (March 2014 Edition 6.1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described				
	The JBCC Principal Building Agreement contract data form an integral part of this agreement				
	The Preliminaries revision 1 (February 2016) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement Edition 6.1 shall be deemed to be incorporated in these bills of quantities , amended as hereinafter described				
	The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause				
	The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only				
	Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"				
	<u>User note</u>				
	A provision/clause in Edition 6.1 of the JBCC Principal Building Agreement may have unintended consequences. The following is relevant:				
	Within the contract data document there is space to insert changes made to the JBCC documentation. Quantity surveyors have generally up to now merely inserted in this space "Refer to Bill No. 1"				
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Below the abovementioned space the following note has been inserted:		
"Note: The amendments contained herein or in the single referenced Annexure constitute the only amendments to the standard JBCC Agreement that will apply. No other amendments shall be of any force or effect"		
Should quantity surveyors wish to adhere to the system of inserting amendments, modifications, corrections or supplements to the JBCC documentation under the listed clause headings in Bill No. 1 (Preliminaries) then it is suggested that the following clause be inserted in the space provided in the contract data where changes made to the JBCC documentation are to be recorded:		
"It is specifically agreed that the note below calling for amendments to the standard JBCC Agreement to be listed in the space provided in the contract data or recorded in 'the single referenced Annexure' shall not apply. Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading in Bill No 1 (Preliminaries) and such amendments, modifications, corrections or supplements shall take precedence notwithstanding the note below and notwithstanding the provisions of clause 5.6 of the JBCC Principal Building Agreement"		
Not doing as suggested above when adhering to the system generally used by quantity surveyors up to now may result in any amendments within Bill No. 1 (Preliminaries) being considered null and void, which could then lead to major claims		
The following paragraph should in addition be inserted		1
? Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents?		
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PREAMBLES FOR TRADES			
<u>User note</u>			
The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. Where such model preambles are not applicable (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first			
The Model Preambles for Trades 2008 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 and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles			
The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications			
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STRUCTURE OF THIS PRELIMINARIES BILL				
Section A : A recital of the headings of the individual clauses of				
the aforementioned JBCC Principal				
Building Agreement				
Section B : A recital of the headings of the individual clauses of				
the aforementioned Preliminaries document				
Section C : Any special clauses to meet the particular circumstances of the project				
PRICING OF PRELIMINARIES				
Should the contractor select Option A in the contract				
data for the adjustment of preliminaries, the amounts entered against the relevant items in these				
preliminaries are to be divided into one or more of the				
three categories provided namely fixed (F), value related (V) and time related (T)				
SECTION A: PRINCIPAL BUILDING				
AGREEMENT				
Interpretation (A1-A7)				
Clause 1.0 - Definitions and interpretation				
Definition of agreement				
The definition of agreement is replaced with the following definition:				
_				
"AGREEMENT : The JBCC Principal Building Agreement, the completed JBCC PBA contract data, the				
contract drawings, the priced documents and any other documents reduced to writing and signed by the				
parties"				
Pricing of bills of quantities				
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The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary Abbreviated descriptions The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship		
failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice		
Legal status of contractor		
If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:		
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1. several	These persons are deemed to be jointly and			
this	liable to the employer for the performance of			
นแจ	agreement			
2. leader	These persons shall notify the employer of their			
each of	who has authority to bind the contractor and			
CGOII OI	these persons			
3. legal	The contractor shall not alter its composition or			
employ	status without the prior written consent of the			
	by JBCC			
Omit fro	om definition of construction period the words : ing annual holiday periods" om definition of preliminaries the word : "priced"			
	V:	Item		
Clause	2.0 - Law, regulations and notices			
User no	<u>ote</u>			
	ne following where a health and safety ation is <u>not</u> yet available			
? Healt	h and safety			
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specification [2.1] ?		
The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety		
specification) 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 .		
Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Annexure? for a copy of the relevant		
Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations issued in terms of the		
? Health and safety		
Insert the following where a health and safety specification <u>is</u> available		
<u>User note</u>		
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 [2.1]?		
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		
Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations issued in terms of the		

The co	ntractor shall:			
1.	Comply with the health and safety specification			
for the	works			
2.	Prepare and agree with the health and safety			
works	consultant the health and safety plan for the			
3.	Co-operate with the health and safety			
consulta	ant in all			
4.				
with the	•			
and				
	specification			
5. employ	Conform to the conditions contained in the ver's			
	health and safety specification			
User no	<u>ote</u>			
Insert <u>o</u> only	ne of the following for residential developments			
? NHBF	RC levies			
required Council register	d by the National Home Builders Registration (NHBRC). The contractor warrants that he is ed and will maintain registration with the NHBRC			
? NHBF	RC levies			
required Council register	Prepare and agree with the health and safety consultant the health and safety plan for the consultant the health and safety plan for the consultant in all respects Manage the compliance of all subcontractors the regulations and with the health and safety plan specification Conform to the conditions contained in the loyer's health and safety specification Inote of the following for residential developments HERC levies employer shall allow for and pay any levies irred by the National Home Builders Registration incil (NHBRC). The contractor warrants that he is stered and will maintain registration with the NHBRC he duration of this agreement [2.1]? HERC levies contractor shall allow for and pay any levies irred by the National Home Builders Registration incil (NHBRC). The contractor warrants that he is stered and will maintain registration with the NHBRC he duration of this agreement [2.1]? HERC levies contractor shall allow for and pay any levies irred by the National Home Builders Registration incil (NHBRC). The contractor warrants that he is stered and will maintain registration with the NHBRC he duration of this agreement [2.1]?			
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3	Clause 3.0 - Offer and acceptance			
	<u>F</u> :V:			
	T:	Item		
4	Clause 4.0 - Assignment and cession			
	F:V:			
	T:	Item		
5	Clause 5.0 - Contract documents			
	Value Added Tax			
	Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)			
	<u>User note</u>			
	The contract drawings are to be listed in the contract data. If insufficient space is available for such listing or for any other reason then reference should be made in the contract data as to where the contract drawings are listed. One of the following clauses may be used			
	Insert the following where only a few contract drawings are applicable			
	? Contract drawings			
	The contract drawings are as listed on the contents page of the bills of quantities [5.1] ?			
	Insert the following where numerous contract drawings are applicable			
	? Contract drawings			
	Refer to Annexure ? for a list of the contract drawings [5.1] ?			
	Priced document as specification			
	Clause 5.3 is deemed to be deleted			
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	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			
	<u>User note</u>			
	Insert the following where applicable			l
	? Electronic issue of drawings			İ
	All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.5] ?			
	Precedence			ı
	Clause 5.6 is deemed to be deleted. The provisions of this Bill No. 1 (Preliminaries) shall take precedence over any other documents which constitute this agreement [5.6]			
	F:V:			ı
	T:	Item		ı
6	Clause 6.0 - Employer's agents			
	? Delegated authority			1
	The authority of the principal agent to issue contract instructions and perform duties for specific aspects of the works is delegated to agents as follows [6.2]: ?			
	<u>User note</u>			
	Add delegated authority as may be required for other relevant consultants not listed hereinafter			
	? 1. Architect			
	<u>User note</u>			
	Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent			
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	nat the contract instructions hereinafter are those n clause 17.0 of the JBCC PBA				
1.1 Du	ties:				
	chitect is responsible for the architectural design, nal design and quality inspection of the works				
1.2 C c	ntract instructions [17.0] :				
1.2.1 descri	Rectification of discrepancies, errors in otions or omissions in contract documents other than				
this	agreement				
1.2.2	Alteration to design, standards or quantity of the				
works	provided that such contract instructions shall				
not	substantially change the scope of the works				
1.2.3	The site [13.2.4]				
1.2.4 bylaws	Compliance with the law , regulations and [2.1]				
1.2.5	Provision and testing of samples of materials				
and of the	goods, of finishes and assemblies of elements				
Of the	works				
1.2.6	Opening up of work for inspection, removal or re-execution				
1.2.7	Removal or re-execution of work				
1.2.8 goods	Removal or substitution of any materials and				
1.2.9	Protection of the works				
1.2.10 damag	Making good physical loss and repairing the works [8.0]				
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1.2.11	Rectification of defects [21.2]		
1.2.12 outsta	A list for practical completion specifying		
	or defective work to be rectified to achieve		
practi	completion and a list for completion and a		
list fo	r final completion specifying outstanding or		
defect	ive work to be rectified to achieve final completion		
l l	Expenditure of budgetary allowances, prime		
cost	amounts and provisional sums		
1.2.14	Appointment of a subcontractor [14.0; 15.0]		
1.2.15	Termination of a nominated n/s subcontract agreement [27.2.8]		
1.2.16	Work by (a) direct contractor(s) [16.0]		
1.2.17 remed	Access by other or previous contractors to		
	defective work		
1.2.18 on the			
	works		
	Removal from the site of any person not		
engag	ed on or connected with the works		
1.2.20 remov	On termination, protection of the works ,		
and	construction equipment and surplus materials		
a i a	goods [29.0]		
? 2. <u>Q</u>	uantity surveyor		
Section	Carried to Collection n No. 1	R	<u></u>
Bill No	. 1		
1	.1 Preliminaries Associates		

<u>User</u>	<u>note</u>		
not re	the following but remove where the consultant is levant to this agreement. Edit both the duties and intract instructions of the consultant in keeping the wishes of the principal agent		
	that the contract instructions hereinafter are those in clause 17.0 of the JBCC PBA		
2.1 D	uties :		
meas	uantity surveyor is responsible for all urements, valuations, financial assessments and er quantity surveying and cost control functions of orks		
2.2 C	ontract instructions [17.0] :		
2.2.1 descr	Rectification of discrepancies, errors in ptions or omissions in contract documents other than		
	agreement		
2.2.2 works			
not	provided that such contract instructions shall		
	substantially change the scope of the works		
2.2.3	The site [13.2.4]		
2.2.4 bylaw	Compliance with the law , regulations and s [2.1]		
2.2.5	Provision and testing of samples of materials		
and of the	goods, of finishes and assemblies of elements		
or the	works		
2.2.6	Opening up of work for inspection, removal or re-execution		
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2.2.7	Removal or re-execution of work		
2.2.8 goods	Removal or substitution of any materials and		
2.2.9	Protection of the works		
2.2.10 damage	Making good physical loss and repairing to the works [8.0]		
2.2.11	Rectification of defects [21.2]		
outstan	or defective work to be rectified to achieve		
practic	al completion and a list for completion and a		
list for	final completion specifying outstanding or		
defectiv	work to be rectified to achieve final completion		
2.2.13	Expenditure of budgetary allowances , prime		
cost	amounts and provisional sums		
2.2.14	Appointment of a subcontractor [14.0; 15.0]		
2.2.15	Termination of a nominated n/s subcontract agreement [27.2.8]		
2.2.16	Work by (a) direct contractor(s) [16.0]		
2.2.17 remedy	Access by other or previous contractors to defective work		
2.2.18 on the	Removal from the site of any person employed works		
2.2.19 engage	Removal from the site of any person not on or connected with the works		
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2.2.20 remova	On termination, protection of the works ,		
	construction equipment and surplus materials		
and	goods [29.0]		
? 3. <u>Ci</u>	vil and structural engineer		
User no	<u>ote</u>		
not rele	the following but remove where the consultant is evant to this agreement. Edit both the duties and intract instructions of the consultant in keeping e wishes of the principal agent		
	nat the contract instructions hereinafter are those n clause 17.0 of the JBCC PBA		
3.1 Du	ties:		
aspect	vil and structural engineer is responsible for all so of civil and structural engineering design and inspection of the works		
3.2 Co	ntract instructions [17.0] :		
3.2.1 descrip	Rectification of discrepancies, errors in otions or omissions in contract documents other than		
this			
	agreement		
3.2.2 works	Alteration to design, standards or quantity of the		
not	provided that such contract instructions shall		
1100	substantially change the scope of the works		
3.2.3	The site [13.2.4]		
3.2.4 bylaws	Compliance with the law , regulations and [2.1]		
		_	_
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3.2.5 and	Provision and testing of samples of materials		
of the	goods , of finishes and assemblies of elements		
OI tile	works		
3.2.6	Opening up of work for inspection, removal or re-execution		
3.2.7	Removal or re-execution of work		
3.2.8 goods	Removal or substitution of any materials and		
3.2.9	Protection of the works		
3.2.10 damage	Making good physical loss and repairing to the works [8.0]		
3.2.11	Rectification of defects [21.2]		
3.2.12 outstan	A list for practical completion specifying ding		
practic	or defective work to be rectified to achieve		
list for	completion and a list for completion and a		
defectiv	final completion specifying outstanding or		
delectiv	work to be rectified to achieve final completion		
3.2.13 cost	Expenditure of budgetary allowances , prime		
0001	amounts and provisional sums		
3.2.14	Appointment of a subcontractor [14.0; 15.0]		
3.2.15	Termination of a nominated n/s subcontract agreement [27.2.8]		
3.2.16	Work by (a) direct contractor(s) [16.0]		
3.2.17 remedy	Access by other or previous contractors to		
remedy	defective work		
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3.2.18 Removal from the site of any person employed on the				
works				
3.2.19 Removal from the site of any person not				
engaged on or connected with the works				
3.2.20 On termination, protection of the works ,				
removal of construction equipment and surplus materials				
and goods [29.0]				
? 4. Mechanical engineer				
<u>User note</u>				
Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent				
Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA				
4.1 Duties :				
The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the works ?and, where appointed by the employer for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions?				
4.2 Contract instructions [17.0] :	moval from the site of any person not in connected with the works termination, protection of the works, instruction equipment and surplus materials ods [29.0] mical engineer billowing but remove where the consultant is to this agreement. Edit both the duties and to this agreement. Edit both the duties and to this agreement. Edit both the duties and to the consultant in keeping shes of the principal agent instructions for the orosultant in keeping shes of the principal agent are contract instructions hereinafter are those use 17.0 of the JBCC PBA inical engineer is responsible for all aspects cal engineering design and quality inspection is 2 and, where appointed by the employer surveying services in respect of the installations, for all measurements, financial assessments and all other quantity and cost control functions? ct instructions [17.0]: ct instructions [17.0]: ctification of discrepancies, errors in 8 or 18			
4.2.1 Rectification of discrepancies, errors in				
descriptions or omissions in contract documents other than this				
agreement				
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4.2.2 works	Alteration to design, standards or quantity of the		
not	provided that such contract instructions shall		
HUL	substantially change the scope of the works		
4.2.3	The site [13.2.4]		
4.2.4 bylaws	Compliance with the law , regulations and [2.1]		
4.2.5 and	Provision and testing of samples of materials		
of the	goods, of finishes and assemblies of elements		
or tile	works		
4.2.6	Opening up of work for inspection, removal or re-execution		
4.2.7	Removal or re-execution of work		
4.2.8 goods	Removal or substitution of any materials and		
4.2.9	Protection of the works		
4.2.10 damage	Making good physical loss and repairing e to the works [8.0]		
4.2.11	Rectification of defects [21.2]		
	A list for practical completion specifying		
outstan	or defective work to be rectified to achieve		
practic	completion and a list for completion and a		
list for	final completion specifying outstanding or		
defectiv	work to be rectified to achieve final completion		
4.2.13	Expenditure of budgetary allowances, prime		
cost	amounts and provisional sums		
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4.2.14 Appointment of a subcontractor [14.0; 15.0]			
4.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]			
4.2.16 Work by (a) direct contractor(s) [16.0]			
4.2.17 Access by other or previous contractors to remedy			
defective work			
4.2.18 Removal from the site of any person employed on the			
works			
4.2.19 Removal from the site of any person not engaged on			
or connected with the works			
4.2.20 On termination, protection of the works , removal of			
construction equipment and surplus materials			
goods [29.0]			
? 5. Electrical engineer			
<u>User note</u>			
Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent			
Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA			
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Bill No.1 Preliminaries MK & Associates			
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5.1 Dut	ies :		
electricathe word quantity installate assessing	actrical engineer is responsible for all aspects of all engineering design and quality inspection of rks ?and, where appointed by the employer for y surveying services in respect of the electrical tions, for all measurements, valuations, financial ments and all other quantity surveying and cost functions?		
5.2 Co ı	ntract instructions [17.0] :		
5.2.1 descrip	Rectification of discrepancies, errors in tions or omissions in contract documents other than		
this	agreement		
5.2.2	Alteration to design, standards or quantity of the		
works not	provided that such contract instructions shall		
HOU	substantially change the scope of the works		
5.2.3	The site [13.2.4]		
5.2.4 bylaws	Compliance with the law , regulations and [2.1]		
5.2.5 and	Provision and testing of samples of materials		
of the	goods, of finishes and assemblies of elements		
	works		
5.2.6	Opening up of work for inspection, removal or re-execution		
5.2.7	Removal or re-execution of work		
5.2.8 goods	Removal or substitution of any materials and		
5.2.9	Protection of the works		
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5.2.10 damage	Making good physical loss and repairing to the works [8.0]		
5.2.11	Rectification of defects [21.2]		
outstand	A list for practical completion specifying ding or defective work to be rectified to achieve		
practica			
	completion and a list for completion and a		
list for defective	final completion specifying outstanding or		
	work to be rectified to achieve final completion		
5.2.13 cost	Expenditure of budgetary allowances, prime		
	amounts and provisional sums		
5.2.14	Appointment of a subcontractor [14.0; 15.0]		
	Termination of a nominated n/s subcontract agreement [27.2.8]		
5.2.16	Work by (a) direct contractor(s) [16.0]		
5.2.17 remedy	Access by other or previous contractors to		
	defective work		
5.2.18 on the	Removal from the site of any person employed		
	works		
5.2.19 engaged	Removal from the site of any person not		
	or connected with the works		
5.2.20 removal	On termination, protection of the works , of		
	construction equipment and surplus materials		
and	goods [29.0]		
? 6. <u>We</u>	t services engineer		
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User no	<u>ote</u>		
not rele	he following but remove where the consultant is evant to this agreement. Edit both the duties and attract instructions of the consultant in keeping by wishes of the principal agent		
II .	nat the contract instructions hereinafter are those on clause 17.0 of the JBCC PBA		
6.1 Dut	ies :		
aspects	et services engineer is responsible for all the s of wet services engineering design and quality ion of the works		
6.2 Co ı	ntract instructions [17.0] :		
6.2.1 descrip	Rectification of discrepancies, errors in tions or		
this	omissions in contract documents other than		
	agreement		
6.2.2 works	Alteration to design, standards or quantity of the		
not	provided that such contract instructions shall		
	substantially change the scope of the works		
6.2.3	The site [13.2.4]		
6.2.4 bylaws	Compliance with the law , regulations and [2.1]		
6.2.5 and	Provision and testing of samples of materials		
of the	goods, of finishes and assemblies of elements		
Of the	works		
6.2.6	Opening up of work for inspection, removal or re-execution		
6.2.7	Removal or re-execution of work		
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6.2.8 Removal or substitution of any materials and goods	
6.2.9 Protection of the works	
6.2.10 Making good physical loss and repairing damage to the works [8.0]	
6.2.11 Rectification of defects [21.2]	
6.2.12 A list for practical completion specifying outstanding	
or defective work to be rectified to achieve practical	
completion and a list for completion and a list for	
final completion specifying outstanding or defective	
work to be rectified to achieve final completion	
6.2.13 Expenditure of budgetary allowances , prime	
amounts and provisional sums	
6.2.14 Appointment of a subcontractor [14.0; 15.0]	
6.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]	
6.2.16 Work by (a) direct contractor(s) [16.0]	
6.2.17 Access by other or previous contractors to remedy	
defective work	
6.2.18 Removal from the site of any person employed	
on the works	
6.2.19 Removal from the site of any person not engaged on	
or connected with the works	
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6.2.20 remova	On termination, protection of the works ,		
	construction equipment and surplus materials		
and	goods [29.0]		
? 7. <u>Fir</u>	e consultant		
User no	<u>ote</u>		
not rele the con	the following but remove where the consultant is evant to this agreement. Edit both the duties and tract instructions of the consultant in keeping wishes of the principal agent		
	at the contract instructions hereinafter are those clause 17.0 of the JBCC PBA		
7.1 Dut	ies :		1
	consultant is responsible for all aspects of fire design and quality inspection of the works		
7.2 Cor	ntract instructions [17.0] :		
7.2.1 descrip			1
this	omissions in contract documents other than		
	agreement		
7.2.2 works	Alteration to design, standards or quantity of the		
	provided that such contract instructions shall		
not	substantially change the scope of the works		
7.2.3	The site [13.2.4]		
7.2.4 bylaws	Compliance with the law , regulations and [2.1]		
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7.2.5 and	Provision and testing of samples of materials		
of the	goods, of finishes and assemblies of elements		
OI tile	works		
7.2.6	Opening up of work for inspection, removal or re-execution		
7.2.7	Removal or re-execution of work		
7.2.8 goods	Removal or substitution of any materials and		
7.2.9	Protection of the works		
7.2.10 damage	Making good physical loss and repairing to the works [8.0]		
7.2.11	Rectification of defects [21.2]		
7.2.12 outstan	A list for practical completion specifying ding		
practic	or defective work to be rectified to achieve		
list for	completion and a list for completion and a		
defectiv	final completion specifying outstanding or		
delectiv	work to be rectified to achieve final completion		
7.2.13 cost	Expenditure of budgetary allowances , prime		
	amounts and provisional sums		
7.2.14	Appointment of a subcontractor [14.0; 15.0]		
7.2.15	Termination of a nominated n/s subcontract agreement [27.2.8]		
7.2.16	Work by (a) direct contractor(s) [16.0]		
7.2.17 remedy	Access by other or previous contractors to		
remedy	defective work		
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7.2.18 Removal from the site of any person employed on the	
works	
7.2.19 Removal from the site of any person not engaged on	
or connected with the works	
7.2.20 On termination, protection of the works , removal of	
construction equipment and surplus materials and goods [29.0]	
? 8. <u>Health and safety consultant</u>	
<u>User note</u>	
Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent	
Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA	
8.1 Duties :	
The health and safety consultant is responsible for all aspects of health and safety of the works . Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the works :	
8.1.1 Act as the employer's agent in terms of Construction Regulations issued in terms of the Occupational Health and Safety Act,1993	
8.1.2 Prepare and update the health and safety specification for the works	
8.1.3 Agree with the contractor the health and safety plan for the works	
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	8.1.4 Carry out regular audits to ensure adherence to safety plan and compliance with the Act and Regulations			
	8.1.5 Stop the execution of the works where the agreed			
	specification or plan is not adhered to			
	F: T:	Item		
7	Clause 7.0 - Design responsibility			
	F: V: T:	Item		
	Insurance and security (A8-A11)			
8	Clause 8.0 - Works risk			
	F: V: T:	Item		
9	Clause 9.0 - Indemnities			
	F: T:	Item		
10	Clause 10.0 - Insurances			
	F: V: T:	Item		
11	Clause 11.0 - Security			
	<u>User note</u>			
	If it is deemed advisable, the <u>extent</u> of any security for payment may be stated as follows:			
	? Security for payment			
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	The employer shall provide to the contractor security for payment in the amount of ?			
	<u>User note</u>			
	Where it is expected of the contractor to waive his lien in terms of clause 11.10, the waiver of lien may be extended to subcontracts as follows:			
	? Extension of waiver of lien			
	The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10]?			
	Errata by JBCC			
	Clause 11.5 Replace "ten (10)" with "five (5)"			
	F:V:			
	T:	Item		
	Execution (A12 - A17)			
12	Clause 12.0 - Duties of the parties			
	Provisions of clauses 12.1.2 to 12.1.6 and 12.2.18			
	Refer to the contract data , the Preliminaries document and "Section B : Preliminaries" of this Bill No. 1 with reference to the provisions of clauses 12.1.2 to 12.1.6 and 12.2.18 of the JBCC Principal Building Agreement			
	? Office accommodation			
	The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site . Such offices shall be kept clean and fit for use at all times [12.2.18]?			
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	? Notice board			
	The contractor shall erect in a position approved by the principal agent , maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer , the contractor , and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18] ?			
	<u>User note</u>			
	Clause 12.1.5 requires the employer to identify access to water, sewer, stormwater and/or electricity connections to the site. Should such information be available then it is to be stated here or in the contract data in detail with a suitable heading in bold. Reference as [12.1.5]. The user should, however, note that clauses 8.1 and 8.2 of the Preliminaries state that the employer does not warrant that any water or electricity supplies that may exist are adequate for the proper execution of the works. Any ambiguity in this respect is to be dealt with			
	Should access to water, sewer, stormwater and/or electricity connections not be identifiable due to such information not being available or the specific requirements of the contractor cannot be determined, then the following clause may be considered in which event a qualified tender may be expected			
	? Access to water, sewer, stormwater and electricity connections			
	The employer is not in a position to identify access to water, sewer, stormwater and/or electricity connections to the site as may be suitable for the execution of the works . The contractor is to allow what he considers to be required and is to qualify his tender in detail in this regard, failing which it shall be taken that the contractor has allowed what will be required for the execution of the works . In such case no claims for additional cost or loss shall be entertained [12.1.5]?			
	Operate day Operations			
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	Statutory and other notices			
	<u>User note</u>			
	Statutory and other notices which the contractor must submit and/or comply with before possession of the site can be given are to be stated here or in the contract data. Reference [12.1.6]			
	If specific information is not available then the user may consider a clause along the following lines			
	? The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor . The contractor shall pay all deposits or fees in this regard [12.1.6]			
	It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto?			
	Errata by JBCC			
	Clause 12.2.17 Omit the words "[CD] within ten (10) working days"			
	F: V: T:	Item		
13	Clause 13.0 - Setting out			
	F: T:	Item		
14	Clause 14.0 - Nominated subcontractors			
	Errata by JBCC			
	Clause 14.1.4 Reference should read "[17.1.14]" Clause 14.6 Reference should read "[17.1.15; 27.1.8]" Clause 14.7.2 Reference should read "[27.1.8]" Clause 14.7.3 Reference should read "[27.2.8]"			
	Operate data Operations			
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			Item		
15	Clause	15.0 - Selected subcontractors			
	Errata	by JBCC			
	Clause	15.2 Reference should read "[17.1.14]" 15.7.2 Reference should read "[27.1.8]" 15.7.3 Reference should read "[27.2.8]"			
		V:	Item		
16	Clause	16.0 - Direct contractors			
	Attend	ance on direct contractors			
	In resp	ect of direct contractors the contractor shall:			
	1.	Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials			
	2.	Allow the use of personnel welfare facilities,			
	where	provided			
	3.	Provide water, lighting and single phase electric			
	power	to a position within 50m of the place where the			
	or	contract work is to be carried out, other than fuel			
	Oi	power for commissioning of any installation			
	4.	Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by			
	the	contractor, in common with others having the			
	like	right, while it remains erected on the site [16.1]			
	Errata	by JBCC			
	Clause	16.1.3 Reference should read "[26.5]"			
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	F: T:	Item			
17	Clause 17.0 - Contract instructions				
	? Site instructions				
	Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor ?				
	Errata by JBCC				
	Clause 17.1.3 Reference should read "[13.2.4]"				
	F: T:	Item			
	Completion (A18 - A24)				
18	Clause 18.0 - Interim completion				
	F: V: T:	Item			
19	Clause 19.0 - Practical completion				
	<u>User note</u>				
	List with a suitable heading in bold any special requirements for practical completion here or in the contract data. Reference as [19.3.1]				
	F: T:	Item			
20	Clause 20.0 - Sectional completion				
	<u>User note</u>				
	If sectional completion is applicable, then a clause with a suitable heading in bold should be inserted, or drawing(s) annexed, to define the various sections. Reference as [20.1]				
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	Errata by JBCC			
	Clause 20.2.2 Reference should read "[21.6.2]"			
	F:V:			l
	T:	Item		ı
21	Clause 21.0 - Defects liability period and final completion			
	Errata by JBCC			
	Clause 21.1 Delete the word "final" in the second last line Reference should read "[21.6.1]" Clause 21.9 Reference should read "[21.4; 21.6.1]"			
	F: T:	Item		
		item		
22	Clause 22.0 - Latent defects liability period			l
	F: T:	Item		1
23	Clause 23.0 - Revision of date for practical completion			
	Substitution of materials and goods			
	The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8, 23.1 & 2]			
	Errata by JBCC			
	Clause 23.2 Reference should read "[26.7]" Clause 23.2.1 Reference should read "[12.1.7]"			
	F: T:	Item		
24	Clause 24.0 - Penalty for late or non-completion			
	<u>F</u> :V:			
	T:	Item		
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	Payment (A25 - A27)				
25	Clause 25.0 - Payment				
	Materials and goods prematurely on site				
	Materials and goods brought onto the site prematurely shall not be authorised for payment [25.3.2]				
	<u>User note</u>				
	Insert one of the following two clauses				
	? Materials and goods stored off site				
	Materials and goods stored off site shall not be authorised for payment [25.3.2] ?				
	? Materials and goods stored off site				
	Materials and goods stored off site shall be authorised for payment subject to a guarantee for advance payment being provided to the employer [25.3.2]?				
	? Fluctuations in costs				
	All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [25.3.4] ?				
	Prices submitted				
	Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate , there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion , it shall be in writing				
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	Errata by JBCC				
	Clause 25.2 The word: "final" in bold in the second line Clause 25.10.3 Reference should read "[25.13; 26.10]" New clause 25.12.4 Add the words: "Terminate the agreement [29.14.7] where the listed options [25.12.1-3] have failed"				
	F: V: T:	Item			
26	Clause 26.0 - Adjustment of the contract value and final account				
	<u>User note</u>				
	Insert the following where tenant installations/users requirements may be delayed or omitted				
	? Tenant installations/users requirements delayed				
	There is a possibility that certain works related to tenant installations/users requirements may have to be delayed and may consequently not be executed prior to practical completion				
	The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission				
	Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works ?				
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	Cost of claims			
	All costs incurred by the contractor in the preparation of claims shall be borne by the contractor . This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6,7] from making a determination on costs			
	The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6]			
	Errata by JBCC			
	Clause 26.4.2 Omit the entire clause and renumber thereafter New clause 26.4.3 "Other proven or unavoidable costs"			
	F: T:	Item		
27	Clause 27.0 - Recovery of expense and/or loss			
21	F: V:			
	T:	Item		
	Suspension and termination (A28 - A29)			
28	Clause 28.0 - Suspension by the contractor			
	Errata by JBCC			
	New clause 28.1.5 and renumber thereafter "Or where an agent has failed to act in terms of this agreement [6.4] Clause 28.2 Replace the word "defect" with "default" in			
	the first line			
	F: T:	Item		
29	Clause 29.0 - Termination			
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	Errata by JBCC				
	Clause 29.1.2 Delete the words: "within the period stated [CD]" Clause 29.14.1 Change as follows: "Provide or maintain a guarantee for payment[11.4 - 5]" Clause 29.14.2 Reference should read "[12.1.7]" New clause 29.14.8 "Or where an agent has failed to act in terms of this agreement [6.4]"				
	F: T:	Item			
	Dispute resolution (A30)				
30	Clause 30.0 - Dispute resolution				
	F: T:	Item			
31	Agreement				
	The second sentence of the introduction where the parties sign the agreement , namely "Any provision in this agreement acceptance by such subcontractor at any time." is deemed to be deleted				
	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:	lt a ma			
	T:	Item			
32	Contract data				
	Payment of preliminaries				
	Where Option B is applicable and the initial construction period is extended the monthly charge shall be recalculated on the same basis as was initially applied but taking into account the revised construction period and the amounts already paid to the contractor [CD26.0]				
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Adjustment of preliminaries		
Where the adjustment of preliminaries is in terms of Option A, the construction period and the initial construction period shall be calculated in working days [CD 26.0]		
Where the adjustment of preliminaries is in terms of Option A and sectional completion is required, the contractor shall provide the principal agent with the division of the categorised amounts into sections . Should the contractor fail to provide such information within the period stipulated, the categorised amounts shall be prorated to the value of each section [CD 26.0]		
Where the adjustment of preliminaries is required in terms of Option B and sectional completion is required, the contractor shall provide the principal agent with details of the resources required for each section and those that are common to sections . Should the contractor fail to provide such information within the period stipulated, Option A shall apply [CD 26.0]		
<u>User note</u>		
Where removal of lateral support insurance is required and stated as such in the contract data for the employer to insure, it is to be noted that it may appear under "no" for the employer to insure where the contractor is to take out the other insurances. In such a case the following clause is to be inserted		
? Removal of lateral support insurance		
Whilst it is stated in clause 10.0 of the contract data that the employer will not be responsible for works and other insurances the employer shall nevertheless be responsible for the removal of lateral support insurance in the amount stated ?		
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F: T:	Item		
Clause 1.2 - Interpretation			
F: T:	Item		
Clause 1.1 - Definitions			
Interpretation (B1)			
SECTION B: PRELIMINARIES			
T:	Item		
be deemed to be deleted F:			
Note 4 on page 10 of the contract data which relates to any benefit or right in favour of any subcontractor shall			
Note 4 on page 10 of the contract data			
All information for the above requires consultation with the contractor. The principal agent should not pre-select any of the alternatives available to the contractor			
<u>User note</u>			
Before submission of his tender the contractor is to complete the tenderer's selection in the contract data			
Tenderer's selection			
(Preliminaries) and insert the proposed clause in the space provided in the contract data where changes made to the JBCC documentation is to be recorded should the user wish to adhere to the system of inserting amendments, modifications, corrections or supplements to the JBCC documentation under the listed clause headings in this Bill No 1 (Preliminaries)			
Refer to the user note on page 2 of this Bill No 1			
<u>User note</u>			

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	Documents (B2)				
35	Clause 2.1 - Checking of documents				
	F: V: T:	Item			
36	Clause 2.2 - Provisional bills of quantities				
	<u>User note</u>				
	Check "wet trades" included in the bills of quantities and edit the following clause as may be necessary				
	? Multiple procurement				
	These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally (fully?) measured and the subsequent trades are budgetary allowances and/or provisional sums ?				
	F: T:	Item			
37	Clause 2.3 - Availability of construction information				
	? Budgetary allowances and provisional sums				
	The budgetary allowances ?and/or provisional sums? allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period ?				
	F: T:	Item			
38	Clause 2.4 - Ordering of materials and goods				
	F: T:	Item			
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	Previous work and adjoining properties (B3)			
39	Clause 3.1 - Previous work - dimensional accuracy			
	F:V:			
	T:	Item		
40	Clause 3.2 - Previous work - defects			
	F: V:	14		
	T:	Item		
41	Clause 3.3 - Inspection of adjoining properties			
	F: T:	Item		
	1	item		
	The site (B4)			
42	Clause 4.1 - Defined works area			
	F:V:	Itana		
	T:	Item		
43	Clause 4.2 - Handover of site in stages			
	F: T:	Item		
		item		
44	Clause 4.3 - Enclosure of the works			
	F: T:	Item		
		Itom		
45	Clause 4.4 - Geotechnical investigation			
	F: T:	Item		
40				
46	Clause 4.5 - Encroachments			
	F: T:	Item		
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47	Clause 4.6 - Existing premises occupied			
	F: T:	Item		
48	Clause 4.7 - Services - known			
	F: T:	Item		
49	Clause 4.8 - Protection of trees and/or relevant natural features			
	F: T:	Item		
	Management of contract (B5)			
50	Clause 5.1 - Management of the works			
	F: V: T:	Item		
51	Clause 5.2 - Progress meetings			
	F: V: T:	Item		
52	Clause 5.3 - Technical meetings			
	F: T:	Item		
	Samples, shop drawings and manufacturer's instructions (B6)			
53	Clause 6.1 - Samples of materials			
	F: T:	Item		
54	Clause 6.2 - Workmanship samples			
	F: T:	Item		
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55	Clause 6.3 - Shop drawings			
	F: V: T:	Item		
56	Clause 6.4 - Compliance with manufacturer's instructions			
	F: V: T:	Item		
	Deposits and fees (B7)			
57	Clause 7.1 - Deposits and fees			
	F: T:	Item		
	Temporary services (B8)			
58	Clause 8.1 - Water			
	F: T:	Item		
59	Clause 8.2 - Electricity			
	F: T:	Item		
60	Clause 8.3 - Ablution and welfare facilities			
	F: T:	Item		
61	Clause 8.4 - Communication facilities			
	F: T:	Item		
	Prime cost amounts (B9)			
62	Clause 9.1 - Responsibility for prime cost amounts			
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	<u>User note</u>			
	Where details of materials included in prime cost amounts <u>are not</u> readily available and it is therefore not possible for the contractor to price for waste, the relevant prime cost amount shall be inserted in the bills of quantities as a lump sum with the contractor being given the opportunity to separately price his overheads and profit and for taking delivery, etc as called for in this clause 9.1 of the preliminaries. In such case the fixing only or installation only of the relevant materials shall be provisionally measured for the contractor to price and shall be re-measured upon completion			
	Where details of materials for which prime cost amounts are to be allowed <u>are</u> readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc			
	F: T:	Item		
	Attendance on subcontractors (B10)			
63	Clause 10.1 - General attendance			
	<u>User note</u>			
	General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement			
	F: T:	Item		
64	Clause 10.2 - Special attendance			
	<u>User note</u>			
	Insert details after the provisional sums (nominated or selected subcontract amount) for any special attendance where specifically required for each n/s subcontractor separately			
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	It is important to note that general attendance only requires the contractor to "permit the subcontractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site" (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many n/s subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of "special attendance" in the applicable bill				
	F:	Item			
65	Clause 11.1 - Protection of the works				
	F: T:	Item			
66	Clause 11.2 - Protection/isolation of existing/sectionally occupied works				
	F: T:	Item			
67	Clause 11.3 - Security of the works				
	F: T:	Item			
86	Clause 11.4 - Notice before covering work				
	F: T:	Item			
69	Clause 11.5 - Disturbance				
	F: T:	Item			
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	Clause 11.6 - Environmental disturbance				
	F: T:	Item			
70	Clause 11.7 - Works cleaning and clearing				
	F: T:	Item			
71	Clause 11.8 - Vermin				
	F: T:	Item			
72	Clause 11.9 - Overhand work				
	F: T:	Item			
73	Clause 11.10 - Tenant installations by direct contractors				
	F: T:	Item			
74	Clause 11.11 - Advertising				
	F: T:	Item			
	Preliminaries schedule (B12)				
75	Information for completion of the preliminaries schedule				
	Information necessary for elections and completion of those clauses contained in the preliminaries 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				
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12.1 - Provisional bills of quantities [2.2]				
The quantities are provisional ? Yes/No ?				
12.2 - Availability of construction information [2.3]				
Construction documentation is complete? Yes/No?				
12.3 - Previous work - dimensional accuracy [3.1]				
12.4 - Previous work - defects [3.2]				
12.5 - Inspection of adjoining properties [3.3]				
12.6 - Defined works area [4.1]				
<u>User note</u>				
Describe the restrictions to the site or areas that the contractor may not occupy. Reference as [PBA 12.1.4]				
12.7 - Handover of site in stages [4.2]				
<u>User note</u>				
Describe in detail where handover of the site to the contractor is done in stages				
12.8 - Enclosure of the works [4.3]				
12.9 - Geotechnical investigation [4.4]				
<u>User note</u>				
Insert the following clause should a geotechnical investigation report be available and insert the relevant annexure				
? Refer to Annexure ? for the results of a geotechnical investigation report ?				
12.10 - Existing premises occupied [4.6]				
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<u>User note</u>		
If the existing premises are occupied state it here and describe the detail and/or specific requirements. Reference as [PBA 12.1.2]		
12.11 - Services - known [4.7]		
<u>User note</u>		
Insert details should the contractor be responsible for the preservation of known services. Reference as [PBA 12.1.3]		
12.12 - Protection of trees and/or relevant natural features [4.8]		
<u>User note</u>		
Expand clause 4.8 of the Preliminaries should there be specific requirements for the preservation of trees or relevant natural features. Reference as [PBA 12.1.3]		
12.13 - Water [8.1]		
Option A (by contractor) ? Yes/No ?		
Option B (by employer - free of charge)? Yes/No?		
Option C (by employer - metered) ? Yes/No ?		
12.14 - Electricity [8.2]		
Option A (by contractor) ? Yes/No ?		
Option B (by employer - free of charge)? Yes/No?		
Option C (by employer - metered) ? Yes/No ?		
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12.15 - Ablution and welfare facilities [8.3]			
Option A (by contractor)	?		
Yes/No ? Option B (by employer)	?		
Yes/No?			
12.16 - Communication facilities [8.4]			
12.17 - Protection of the works [11.1]			
12.18 - Protection/isolation of existing/sectionall occupied works [11.2]	у		
Protection/isolation is required Yes/No ?	?		
12.19 - Disturbance [11.5]			
<u>User note</u>			
The following clause may be used should "distur [11.5] need to be extended	rbance"		
cause no unacceptable or unreasonable dust, no vibrations, nuisance, inconvenience, annoyance like to the public, others, other properties and traso far as they exceed the permissible limitations government legislation or by the local authority. delays, stoppages and the like arising from or in comply with the above will not constitute ground adjustment to the construction period or contruction whatsoever?	and the affic in set by Any order to s for an		
12.20 - Environmental disturbance [11.6]			
? Controlling all forms of pollution			
The contractor shall be responsible for and take precautions in controlling by whatever means neall forms of pollution emanating from the site du construction period due <i>inter alia</i> to noise, artiflight, wind-blown sand, dust, deposits of mud, et	ecessary ring the ficial		
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The contractor is to ensure that all roads which border the site and is used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works ?			
? Environmental management plan			
The employer has prepared an environmental management plan (EMP) (refer to Annexure ? for a copy of the relevant plan). The contractor shall price opposite this item for compliance with all the requirements of such EMP ?			
F: T:	Item		
SECTION C: SPECIFIC PRELIMINARIES			1
<u>User note</u>			1
Users shall avoid inserting in Section C items which may be construed as amending, modifying, correcting or supplementing the provisions of the JBCC Principal Building Agreement. Such amendments, modifications, corrections or supplements should be kept to the absolute minimum and should be inserted in the space provided in the contract data or in a single referenced annexure as stipulated in the contract data or, when taking into account the methodology suggested in the user note on page 2 of this Bill No. 1, should be inserted in Section A under the recited clause headings of the JBCC Principal Building Agreement in this Bill No. 1			
<u>User note</u>			
Selected examples of typical clauses are provided to indicate ways of describing such clauses. Users must delete, adapt or add to these examples to suit their particular circumstances			
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76	Warranties for materials and workmanship			
	Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer , from the entity supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract			
	The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so			
	The warranty will not be enforced if the work is damaged by defects in the execution of the works , in which case the responsibility for replacement shall rest entirely with the contractor			
	F: T:	Item		
		item		
77	Overtime			
	Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer			
	F: T:	Item		
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78	Co-operation of the contractor for cost management			
	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget			
	F: T:	Item		
		item		
79	Overloading			
	The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense			
	F: T:	Item		
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80	Propping of floors below			
	The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor			
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	T:	Item		
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81	Testing of flat roof waterproofing for watertightness			
	Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent , flooded with water and kept "ponded" for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing			
	F: T:	Item		
82	Green star building certification			
	<u>User note</u>			
	Insert the provisions called for by the relevant green star consultant should it be a requirement that the project be submitted for green star certification			
	F: T:	Item		
83	Broad based black economic empowerment (BBBEE)			
	Tenders submitted will be evaluated taking into account their empowerment rating			
	The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works			
	The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating			
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84	Advertising rights			
	The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting the obligations under this agreement			
	F: T:	Item		
85	Confidentiality			
	The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works			
	No information regarding this project shall be published or disclosed without the prior written consent of the employer			
	F: T:	Item		
86	Media releases			
	All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer			
	The contractor together with his subcontractors shall not, without the prior written consent of the employer , cause any statement or advertisement connected with this project to be printed, screened or aired by the media			
	F: T:	Item		
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Category : Value R		
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Item No		Unit	Quantity	Rate	Amount	
	BILL NO 2					
	OCCUPATIONAL HEALTH & SAFETY					
	The Contractor shall comply with all the requirements set out in the Construction Regulations, 2014, issued under Occupational Health and Safety Act (Act 85 of 1993) It is required of the Contractor to thoroughly study these Regulations and Health and Safety Specification that must be read together with and is deemed to be to be incorporated under this Section of the Bill of quantities. It is required of the Contractor to thoroughly study these Regulations and Health and Safety Specification that must be read together with and is deemed to be to be incorporated under this Section of the Bill of quantities.					
	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 non-compliance, the Principal Agent, reserve the right to delay issuing of any progress payment certificate payment until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest due to such delay of payment					
	Provision of pricing of the Occupational Health and Safety Specification is made under this bill and it explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claim in this regard shall be entertained.					
	Note: The file shall be a lever arch with original color document of acceptable standards. The file will be expanded during the project as and when required by the client					
	OCCOPATIONAL HEALTH & SAFETY					
	PROGRAMME					
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	Set up a site and job specific Health and Safety Plan, including a Safety File on site to contain the following:				
	HEALTH AND SAFETYPERSONNEL				
1	Safety Officer (SACPCMP Registered)	Mnth	10		
	HEALTH AND SAFETY AMINISTRATION				
2	Copy of Occupational Health and Safety Act (Act 85 of 1993 – 24th version/edition) including Construction Regulations August 2014	No	1		
3	Induction Training/ Re-induction/Re-fresher		Item		
4	Health and Safty File (PRINCIPAL & SUBCONTRACTORS)	No	1		
5	Medicals (Entry & EXit) (Including specialised work i.e Fire,Air conditioning, mechanical equpment, Ventilation, weigh bridge, air compressor and emegency elevator)	No	25		
6	Health and Safety Administration, implementation and maintenance on site including the copies of DSTI, Toolbox Talks, Checklist/Inspection/Internal Audits, Reports, Munites of the Safety Committee Meetings, Printer/photocoping macine & toner/ink/catrages (7 months)	Mnth	10		
7	Multi-Safety Construction Site Signboard (Displaying madatory PPE and Required PPE)		Item		
	OCCUPATIONAL HEALTH AND SAFETY TRAINIG				
8	Construction Health and Safety Supervision		Item		
9	Health and Safety Representative Training		Item		
10	First Aid Training		Item		
11	Fire Fighting Trainng		Item		
12	Incident Investigation/ Incident Management		Item		
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13	Hazard Identification Risk Assessment (HIRA)		Item		
	FIRST AID/ EMERGENCY				
14	First Aid box/kit		Item		
15	First Aid box refilling during the project	Mnth	10		
16	Airtime/ Data (Communication)		Item		
17	Identification Signage	No	4		
18	Fire Extinguishers	No	3		
	SIGNAGE				
19	Mandatory - Blue		Item		
20	Information - Green		Item		
21	Hazard Warning - Yellow		Item		
22	Prohibition - Red		Item		
	PERSONAL PROTECTIVE EQUIPMENT (PRINCIPAL & SUB-CONTRACTOR				
23	Overalls with reflective stripe	No	25		
24	Steel-cap safety boots	No	25		
25	Safety goggles	No	25		
26	Hard Hat	No	25		
	Hearing Protection				
27	Ear plugs		Item		
	Respiratory Protection				
28	FFP 2 Dust mucks (Box of 20)	No	50		
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	Hand Protection				
29	Suprlight Leather gloves	No	25		
	Hot-work PPE				
30	Leather Aprons	No	3		
31	Long leather gloves	No	3		
32	Face shield	No	3		
33	Weldingspctecles	No	3		
	SPECIAL EQUIPMENT				
34	Hand Soap 5L	No	3		
35	Multipurpose Cleaning Detergent 5L	Mnth	10		
36	Paper Towels - Box of 2000	Mnth	10		
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Item No		Unit	Quantity	Rate	Amount
	SECTION No. 2				
	BILL No. 1 Fire Protection				
	Supply, delivery, installation, commissioning and testing of Manually activated fire Alarm system, Fire Protection Equipments and Signage.				
1	5 kg Carbon Dioxide Portable Fire Extinguishers	No	8		
2	4.5 kg DCP Portable Fire Extinguishers	No	25		
3	Wooden Fire Extinguisher Boards	No	200		
4	Supply, Delivery, and installation of fire protection signage. to Comply with SANS 1186-1		PS		30,000.00
	Supply, Delivery, Testing and Commissioning of an Manually Operated Alarm System Complete to Comply with SANS 10139 and SANS 10400: T				
5	4 Loop Addressable Fire Control Panel with Batteries	No	1		
6	2 Core PH 60 Cable, 1mm	m	3,500		
7	Addressible Manual Call Point	No	25		
8	Addressible Sounders and Strobes	No	25		
9	Galvanized Steel Conduit	m	300		
10	Fire Department Link - Remrad/SMS Communicator	No	1		
11	Servicing of Hydrants	No	3		
12	Testing, Commissioning and issuence of CoC's of all Fire Detection Installations		Item		
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Item No		Unit	Quantity	Rate	Amount
1	SECTION No. 2				
	BILL No. 2 HVAC				
	Supply, delivery, installation, commissioning and testing of 7.0kW cooling capacity Round Flow Cassettee Unit (Heat Pump, Inverter, R410) complete with insulated refrigerant piping, condensate drains, trunking, electric wiring and connection, remote controls and top-up refrigerant				
1	Round Flow Cassettee Unit, 7.0 kW cooling capacity with Heat Pump and Inverter (SABS Approved or Equivalent)	No	1		
2	Wired Controller	No	1		
3	Chord for Wired Controller	m	6		
4	Interface Adapter for Wired Controller	No	1		
5	Refrigerant piping - Liquid	m	15		
6	Refrigerant piping - Gas	m	15		
7	Discharge Gas (Φ 28.6mm) Flare Connection	m	15		
	TEST & COMMISSION				
8	Test and Commission		Item		
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 2 Bill No.2 HVAC MK & Associates			R	

Item No		Unit	Quantity	Rate	Amount
1	SECTION No. 2				
	BILL No. 3 Mechanical Equipments				
	Supply, delivery, installation, commissioning and testing of conveyors, gearbox (Shaft Mounted Speed Reducer)es, ventilation systems				
	ROAD INTAKE				
	HOPPER 3&4				
1	Recondition intake hopper pneumatic sliding valves (Strip, recondition and reinstall)	No	2		
2	Replace compressed air filter regulator	No	2		
3	Recondition Hopper (H3&4) conveyor belt gearbox (Shaft Mounted Speed Reducer)	No	1		
4	Replace Hopper (H3&4) solid woven 315 x 600mm wide conveyor belt	m	60		
5	Replace Hopper (H3&4) spiral conveyor belt pulley	No	2		
6	Replace Hopper (H3&4) conveyor belt HDPE rollers	No	55		
7	Replace Hopper (H3&4) conveyor belt troughing HDPE idlers	No	18		
8	Replace Hopper (H3&4) conveyor belt return HDPE rollers	No	8		
9	Replace Hopper (H3&4) conveyer belt guard	No	1		
10	Refurbish Hopper (H3&4) Conveyer belt guard	No	1		
11	Refurbish Hopper (H3&4) Conveyer belt sub-assembly		PS		35,000.00
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12	Replace Hopper (H3&4) conveyor belt tensioner	No	2			
	HOPPER 1&2					
13	Recondition intake hopper pneumatic sliding valves (Strip, recondition and reinstall)	No	2			
14	Replace compressed air filter regulator	No	2			
15	Recondition Hopper (H1&2) conveyor belt gearbox (Shaft Mounted Speed Reducer)	No	1			
16	Replace Hopper (H1&2) spiral conveyor belt pulley	No	2			
17	Replace Hopper (H1&2) solid woven 315 x 600mm wide conveyor belt	m	40			
18	Replace Hopper (H1&2) conveyor belt HDPE rollers	No	30			
19	Replace Hopper (H1&2) conveyor belt troughing HDPE idlers	No	12			
20	Replace Hopper (H1&2) conveyor belt return HDPE rollers	No	6			
21	Refurbish Hopper (H1&2) Conveyer belt guard	No	2			
22	Refurbish Hopper (H1&2) Conveyer belt sub-assembly		PS		35,000.0)0
23	Replace Hopper (H1&H2) conveyor belt tensioner	No	2			
	RECLAIMER					
	LEFT RECLAIMER					
24	Replace Left reclaimer solid woven 315 x 600mm wide conveyor belt	m	180			
25	Replace Left reclaimer conveyor belt HDPE rollers	No	180			
26	Replace Left reclaimer conveyor belt troughing HDPE idlers	No	12			
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27	Replace Left reclaimer conveyor belt return HDPE rollers	No	30		
28	Replace Left reclaimer conveyor belt tensioner	No	2		
29	Recondition conveyor belt gearbox (Shaft Mounted Speed Reducer)	No	1		
30	Refurbish Left reclaimer chute	No	5		
31	Refurbish Left reclaimer chute sliding gate valves, complete with manual spindles	No	5		
32	Replace reclaimer (250x250mm to 400x400mm) Actuator valve	No	10		
	RIGHT RECLAIMER				
33	Replace Right reclaimer solid woven 315 x 600mm wide conveyor belt	m	180		
34	Replace Right reclaimer conveyor belt HDPE rollers	No	180		
35	Replace Right reclaimer conveyor belt troughing HDPE idlers	No	12		
36	Replace Right reclaimer conveyor belt return HDPE rollers	No	30		
37	Replace Right reclaimer conveyor belt tensioner	No	2		
38	Recondition conveyor belt gearbox (Shaft Mounted Speed Reducer)	No	1		
39	Refurbish Right reclaimer chute	No	5		
40	Refurbish Right reclaimer chute sliding gate valves, complete with manual spindles	No	5		
41	Replace reclaimer (250x250mm to 400x400mm) Actuator valve	No	10		
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	BUCKET ELEVATOR				
42	Replace 3m Long 300x300mm Grain elevator steel duct sections that where submerged under water		PS		300,000.00
43	Replace Gain Elevator buckets that where rebmerged under water		PS		60,000.00
44	Replace Bucket Elevator Bearings and Housing that where submerged in water	No	4		
45	Recondition Bucket Elevator gearbox (Shaft Mounted Speed Reducer)	No	2		
	DISTRIBUTION CONVEYORS				
46	Recondition pneumatic sliding valves	No	4		
47	Replace compressed air filter regulator	No	4		
48	Recondition Distribution conveyor belt gearbox (Shaft Mounted Speed Reducer)	No	2		
49	Replace solid woven 315 x 600mm wide conveyor belt	m	500		
50	Replace spiral conveyor belt pulley	No	4		
51	Replace conveyor belt HDPE rollers	No	333		
52	Replace conveyor belt troughing HDPE idlers	No	100		
53	Replace conveyor belt return HDPE rollers	No	167		
54	Refurbish Hopper (H3&4) Conveyer belt guard	No	4		
55	Refurbish Hopper (H3&4) Conveyer belt sub-assembly		PS		100,000.00
56	Replace Hopper (H3&4) conveyor belt tensioner	No	4		
	CYCLONES				
57	Replace cyclone air lock valves	No	4		
	Carried to Collection Section No. 2 Bill No. 3 Bill No.3 Mechanical Equipments MK & Associates			R	

	GRAIN CLEANER					
58	Decommission and transport to stor cleaner	rage existing grain	PS		120,000.00)
59	Supply, Delivery and installation of cleaner complete with aspiration du terminations and accessories	15-18 Ton Grain ctwork, electrical	PS		3,500,000.00)
	SCADA SYSTEM					
60	Allowed sprovisional sum for the pro automation of the scada systems	ovision and	PS		1,200,000.00)
		Carried to Collection		R		_
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Item No		Unit	Quantity	Rate	Amount
	SECTION No. 2				
	BILL No. 4 Ventilation				
	VENTILATION				
	Replacement, reconditioning and maintenance of ventilation systems.				
1	Major service and balancing of blower/aspiration fans	No	4		
2	Reconditioning of aspiration ductwork (replace damaged ducting, hangers and supports)		PS		850,000.00
3	Supply delivery and installation of Ø500-800mm Fan Cowel, complete with mesh screens	No	4		
4	Refurbishment of Fibreglass Louvers	No	210		
5	Allowed provissional Sum for repainting, ducting, chutes and Fans		PS		350,000.00
	Comita d Farmand (a Communication No. 1)				
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	Bill No.4 Ventilation MK & Associates				
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Item No		Unit	Quantity	Rate	Amount
	SECTION No. 2				
	BILL No. 5 Elevator				
	Supply, Delivery, Installation and Commissioning of Fireman's LIFT				
1	4 Passenger, 1m/s, 3 Stop Firemans Elevator, complete with winch, rigging hook and accessories	No	1		
2	5 l/s Sump pump, complete with drainage pipes	No	1		
3	Allowed sum for Electrical terminations			SUM	
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	Section No. 2 Bill No. 5				
	Bill No.5 Elevator MK & Associates				

Item No		Unit	Quantity	Rate	Amount
1	SECTION No. 2				
	BILL No. 6 Weighing Scale				
	Repair and Maintenance of Road and Rail Weighing Scales				
1	Repair and Maintenance of Road Weighing Scale	No	1		
2	Repair and Maintenance of Rail Weighing Scale	No	1		
3	Testing and commissioning of weigh bridge			SUM	
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 6				
	Bill No.6 Weighing Scale MK & Associates				

Item No		Unit	Quantity	Rate	Amount
	SECTION No. 2				
	BILL No. 7 Compressed Air				
	Supply, Delivery, Installation and commissioning of compressed air system.				
1	32 l/s @ 10 bar, LE oil-lubricated medium pressure piston compressor	No	1		
2	45 l/s, FX Refrigerant Air Dryer 50 Hz	No	1		
3	Comressed Air Filter Regulator	No	15		
4	Silo Air Blaster, complete with automation cabling and intergrated to scada system		PS		1,300,000.00
5	Replace corroded compresses air piping, complete with fittings and accessories		PS		180,000.00
6	Replacement of Pneumatic acuator piston		PS		80,000.00
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 7 Bill No.7 Compressed Air MK & Associates			R	

	SECTION SUMMARY - Section No.2 Mechanical Installations				l
Bill No		Page No		Amount	
1	Bill No.1 Fire Protection	65			
2	Bill No.2 HVAC	66			ļ
3	Bill No.3 Mechanical Equipments	72			
4	Bill No.4 Ventilation	73			
5	Bill No.5 Elevator	74			
6	Bill No.6 Weighing Scale	75			
7	Bill No.7 Compressed Air	76			
	Carried to Final Summary Section No. 2 MK & Associates		R		
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Item No		Quantity	Rate	Amount
3	BILL NO. 1 WATER PIPE TRENCHES (PROVISIONAL)			
	NOTE: E.P.W.P.: All the work in this trade "marked as labour intensive" shall be executed in accordance with the principles of Expanded Public Works Programme, that is, labour intensive methods shall be used			
	NOTE: Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 146 for Haylett purposes			
	SITE CLEARANCE			
	Site Clearance			
1	Clear vegetation, rubble, bushes and trees up to 1 m of girth to a width of 1.5 m from the centre of the trench to either side as well as any other obstructions if instructed by the Engineer in writing, recorded in the site instruction book and forwarded with the relevant certificates for payment purposes. This item shall include the removal of the topsoil to a depth of 75 mm and a width of 3 000 mm, the maintenance thereof until it can be re-used and the re-laying and spreading upon the completion of the pipe line to the satisfaction of the Engineer	480		
	EXCAVATIONS			
	Excavate by machine in all materials for trenches, compact the trench base to 90% MOD AASHTO density, backfill by hand in 150mm thickness layers using excavated material, unless otherwise instructed by the Engineer in writing, compact the layers to 90% MOD AASHTO density, dispose of all surplus and / or unsuitable material within free haul at a place as shall be instructed by the Engineer for the 63mm and 75mm diameter pipes, for the following depths:			
2	Excavation exceeding 0.0m up to and including 1.5m m3	528		
	Carried to Collection Section No. 3 Bill No. 1 Bill No.1 Water Pipes Trenches (Provisional) MK & Associates		R	

3	Extra over excavations in hard rock material (as specified in SABS 1200D item 3.1.2c.1). Quantities with positions and dates must be recorded and agreed with Engineer on site before any blasting commences. Those records must accompany the certificates for payment purposes. Rate shall inlcude the spoiling of unstable hard rock material within free haul distance	m3	53		
	EXCAVATIONS AND ANCILLARY ITEMS				
4	Make up deficiency in backfill material due to spoiling of surplus, unsuitable and / or rock material from other necessary excavations on site within free haul distance (compaction of this material measured in excavations items), quantities must be agreed upon by the Engineer and recorded in the site instruction book and forwarded with the relevant certificates for payment purposes	m3	72		
5	Make up deficiency in backfill material due to spoiling of surplus, unsuitable and / or rock material from designated borrow pits on within free haul distance (compaction of this material measured in excavations items), quantities must be agreed upon by the Engineer and recorded in the site instruction book and forwarded with the relevant certificates for payment purposes	m3	72		
6	Compaction in road reserves to 95% MOD AASHTO density with soilcrete using a ratio of 1:10, rate shall include all materials and labour, positions, dates and quantities shall be recorded in the site instruction book and accompany the certificates for payment, (in each instance 4500mm from road centre line in both direction (9000mm length x trench width x trench depth less 300mm from street level must be cast), all trenches in street crossings must have soilcrete filling	m3	73		
	DEALING WITH EXISTING SERVICES Dealing with services that intersect or adjoin the pipe trenches involved in this contract				
	Carried to Collection			R	
	Section No. 3 Bill No. 1 Bill No.1 Water Pipes Trenches (Provisional) MK & Associates				

	Excavate by hand in soft material to expose existing servics crossing the road or shoulder areas and provide permanent or temporary protection to be approved by the Engineer and recorded in the site instruction book, with position for the following items and forwarded with the relevant certificates for payment purposes, these items must be shown on the "record" drawings as well which are to be handed to the Engineers soffice at completion of the project				
7	Electrical cables crossing the new trenches	No	8		
8	Post office cables and pipes crossing the new trenches	No	2		
9	Other services not specified and / or not indicated on the relevant drawings but encountered during the road construction, each such item must be recorded by the Engineer in the site instruction book as to the positions and nature of such services and forwarded with the relevant certificates for payment purposes	No	5		
10	Excavate by hand in soft material to expose existing services adjoining the new road and shoulder areas and provide permanent or temporary protection, length and position s to be confirmed by the Engineer and recorded in the site instruction book and fowarded with the relevant certificates for payment purposes	m3	20		
	SURFACE FINISHING				
11	Re-instate all surfaces encountered in the process of construction work, with all existing layer works as well as asphalt, concrete or paved block finishing to original conditions prior to the start of the contract, including the importation of material if necessary and the compaction thereof to 90% MOD AASHTO density	m2	100		
	Carried to Collection			R	
	Section No. 3 Bill No. 1 Bill No.1 Water Pipes Trenches (Provisional) MK & Associates				

	PROVISION FOR BEDDING AND COVERING				
	Provision of bedding and covering material from other excavations with 0.5km on this site				
12	Selected granular material for bedding as specified for Class B bedding, placed and compacted in uniform layers as pipe barrel on both sides of the pipes for bedding cradle, ensuring that no stones are amongst the materials, the Engineer must inspect, approve and record each section of bedding in the site instruction book and each approval must accompany the relevant certificates for payment purposes	m3	72		
13	Selected fill material for blanket as specified for Class A, B and C beddings, compacted uniformly in layers with light compaction directly over pipes, ensuring that no stones are amongst the blanket materials, the Engineer must inspect, approve and record each section of 300mm thick covering fill in the site instruction book and each approval must accompany the relevant certificates for payment purposes	m3	72		
	Provision of bedding and covering material from designated borrow pits				
14	Selected granular material for bedding as specified for Class B bedding, placed and compacted in uniform layers as pipe barrel on both sides of the pipes for bedding cradle, ensuring that no stones are amongst the materials, the Engineer must inspect, approve and record each section of bedding in the site instruction book and each approval must accompany the relevant certificates for payment purposes	m3	150		
15	Selected fill material for blanket as specified for Class A, B and C beddings, compacted uniformly in layers with light compaction directly over pipes, ensuring that no stones are amongst the blanket materials, the Engineer must inspect, approve and record each section of 300mm thick covering fill in the site instruction book and each approval must accompany the relevant certificates for payment purposes	m3	72		
	Carried to Collection Section No. 3			R	
	Bill No. 1 Bill No.1 Water Pipes Trenches (Provisional) MK & Associates				

16	19mm Stones to be used for bedding if requested by the Engineer in writing in the site instruction book. Item shall cover the cost of acquiring the material regardless of the distance, delivering to points alongside the trenches and the disposal of material displaced by such importation	m3	72		
	Carried to Collection			R	
	Section No. 3 Bill No. 1 Bill No.1 Water Pipes Trenches (Provisional) MK & Associates				

Section No. 3				
Bill No. 1				
Bill No.1 Water Pipes Trenches (Provisional)				
COLLECTION				
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	80			
	81			
	82			
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Bill No. 1 Bill No.1 Water Pipes Trenches (Provisional)				
MK & Associates				

Item No			Quantity	Rate	Amount
	BILL NO.3 WATER MAINS (PROVISIONAL)				
	NOTE: E.P.W.P.: All the work in this trade "marked as labour intensive" shall be executed in accordance with the principles of Expanded Public Works Programme, that is, labour intensive methods shall be used				
	NOTE: Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 146 for Haylett purposes				
	WATER PIPES				
	Supply and lay, handle, bed on Class B (or as specified by the Engineer) bedding, joint test, cut pipes where necessary and disinfect various water pipes of the following sizes and types:				
1	90mm diameter OD Class 9 uPVC water pipe	m	300		
2	75mm diameter OD Class 9 uPVC water pipe	m	250		
3	50mm Diameter OD type 4 HDPE Class 10 water pipes	m	150		
4	20mm Diameter OD type 4 HDPE Class 10 water pipes	m	100		
	SPECIALS AND FITTINGS				
	Supply and lay, handle, bed on Class B (or as specified by the Engineer) bedding, joint test, cut pipes where necessary and disinfect the following items:				
5	90 mm diameter x 90 mm equal tee	No	5		
6	75 mm diameter x 75 mm equal tee	No	4		
7	90 mm diameter x 75 mm unequal tee	No	3		
8	75 mm diameter x 50 mm unequal tee	No	2		
	Carried to Collection Section No. 3 Bill No. 2 Bill No.2 Water Mains (Provisional) MK & Associates			R	

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9	90 mm diameter x 20 mm diameter Saddles	No	10	
10	75 mm diameter x 20 mm diameter Saddles	No	10	
11	90mm x 90 degree bend	No	16	
12	75 mm x 90 degree bend	No	5	
13	75 mm diameter AVK valve	No	6	
14	50 mm diameter Gate valve	No	3	
15	75 mm diameter x 50 mm Reducer	No	4	
16	50 mm diameter x 20 mm Reducing Tee	No	10	
17	Valve boxes for 90 mm and 75 mm diameter valves as indicated on the drawing	No	4	
18	Construct a Valve Chamber for 90 mm Diameter control valves as indicated on purposes	No	3	
	WATER ANCILLARY ITEMS			
19	Break into and connect to existing water lines, at positions and levels indicated on the relevant plans, sections and details on the drawings. Make good all connections and ensure water tight sealing of the existing pipes after connection, the rate shall include all excavations, backfill and re-compaction, compaction to be 90% MOD AASHTO density	No	3	
20	Anchor thrust blocks and pedestals using mass concrete of 15 Mpa mix strength where required by the pipe bends, tees and end-caps or where the Engineer requested and recorded in the site instruction book and forwarded with the relevant certificates for payment purposes, rate shall include the cost of concrete, reinforcement, formwork, excavation, backfill, compaction etc, for specification of thrust block sizes SABS 1 200 L drawings L3.2, L3.3 and L3.4	m3	15	
21	Supply and install new 80mm diameter "Cosmos			
	Meinecke" bulk water meter complete as per manufacturers specifications	No	1	
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	MK & Associates			

	CONCRETE HOUSING STRUCTURES				
22	Construct reinforced concrete borehole housing structures	No	1		
23	Construct razor mesh fencing to secure the concrete housing structures yards and all amenities inside the yards (size 10,000 x 10,000mm)	No	1		
	BOREHOLES				
24	Clean and test existing boreholes	No	1		
25	Re-equip the existing boreholes with submersible pump and electrical motor	No	1		
26	Construct Borehole Pump Cap	No	1		
	WATER STORAGE				
27	Construct 65,000L pressed steel storage tank as supplied by Abeco Tanks or similar manufacturer including all inlet and outlet connections associated with the construction of the tank and pressure regulating pump to maintain a steady pressure of 3 bars at the pipe outlets	No	1		
	Carried to Collection			R	
	Section No. 3 Bill No. 2 Bill No.2 Water Mains (Provisional) MK & Associates				

Section No. 3				
Bill No. 2				
Bill No.2 Water Mains (Provisional)				
COLLECTION				
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Item No		Unit	Quantity	Rate	Amount
	BILL NO.3 SECURITY UPGRADES (PROVISIONAL)				
	NOTE: E.P.W.P.: All the work in this trade "marked as labour intensive" shall be executed in accordance with the principles of Expanded Public Works Programme, that is, labour intensive methods shall be used				
	NOTE: Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 146 for Haylett purposes				
	ALUMINIUM WINDOWS RAILWAY OFFICE				
1	Window size 900 x 900 (W01)	No	5		
2	Window size 1500 x 1200 (W02)	No	8		
3	Window size 900 x 1,200 (W03)	No	3		
4	Window size 1,511 x 1,854 (W03)	No	8		
	DOOR				
5	Double Volume Door	No	1		
6	Single Door	No	3		
7	Tunnel Entrance Door	No	2		
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	Section No. 3 Bill No. 3				
	Bill No.3 Security Upgrades (Provisional) MK & Associates				

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	FINAL SUMMARY				
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	CONTINGENCY AT 10%		R		
	SUB-TOTAL		R		
	Add: VAT at 15%		R		
	TOTAL		R		
	Carried to Form of Tender		R		
	MK & Associates				