

NEC3 Engineering & Construction Contract

Between **Eskom RoteK Industries – Construction Services**
Reg. No (Reg. No: '1990/006897/30)

and _____
(Reg No. _____)

for **REHABILITATION OF ROSHERVILLE ROOF
STRUCTURES**

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CONTRACT No. [Insert at award stage]

Rehabilitation of Rosherville Roof Structure

Part C1: Agreements & Contract Data

Contents:

**No of
pages**

C1.1 Form of Offer and Acceptance

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C1.2a Contract Data provided by the *Employer*

[•]

C1.2b Contract Data provided by the *Contractor*

[•]

C1.1 Form of Offer & Acceptance

Offer

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of:

Rehabilitation of Rosherville Roof Structures

The tenderer, identified in the Offer signature block, has examined the documents listed in the Tender Data and addenda thereto and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance the tenderer offers to perform all of the obligations and liabilities of the *Contractor* under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the *conditions of contract* identified in the Contract Data.

Options B	The offered total of the Prices exclusive of VAT is	R [●]
	Sub total	R [●]
	Value Added Tax @ 15% is	R [●]
	The offered total of the amount due inclusive of VAT is	R [●]
	(in words) [●]	

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document including the Schedule of Deviations (if any) to the tenderer before the end of the period of validity stated in the Tender Data, or other period as agreed, whereupon the tenderer becomes the party named as the *Contractor* in the *conditions of contract* identified in the Contract Data.

Signature(s)

Name(s)

Capacity

**For the
tenderer:**

(Insert name and address of organisation)

Name &
signature of
witness

Date

Tenderer's CIDB registration number (if applicable)



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Acceptance

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the tenderer's Offer. In consideration thereof, the Employer shall pay the *Contractor* the amount due in accordance with the *conditions of contract* identified in the Contract Data. Acceptance of the tenderer's Offer shall form an agreement between the Employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

Part C1	Agreements and Contract Data, (which includes this Form of Offer and Acceptance)
Part C2	Pricing Data
Part C3	Scope of Work: Works Information
Part C4	Site Information

Drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The tenderer shall within two weeks of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the *conditions of contract* identified in the Contract Data at, or just after, the date this agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy signed between them of this document, including the Schedule of Deviations (if any).

Unless the tenderer (now *Contractor*) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

Signature(s)

Name(s)

Capacity

**for the
Employer**

(Insert name and address of organisation)

Name &
signature of
witness

Date

Note: If a tenderer wishes to submit alternative tenders, use another copy of this Form of Offer and Acceptance.



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Schedule of Deviations to be completed by the *Employer* prior to contract award

Note:

1. This part of the Offer & Acceptance would not be required if the contract has been developed by negotiation between the Parties and is not the result of a process of competitive tendering.
2. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
3. A tenderer's covering letter must not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid be the subject of agreement reached during the process of Offer and Acceptance, the outcome of such agreement shall be recorded here and the final draft of the contract documents shall be revised to incorporate the effect of it.

No.	Subject	Details
1	[•]	[•]
2	[•]	[•]
3	[•]	[•]
4	[•]	[•]
5	[•]	[•]
6	[•]	[•]
7	[•]	[•]

By the duly authorised representatives signing this Schedule of Deviations below, the Employer and the tenderer agree to and accept this Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules, as well as any confirmation, clarification or changes to the terms of the Offer agreed by the tenderer and the Employer during this process of Offer and Acceptance.

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

For the tenderer:

For the Employer

Signature

Name

Capacity

On behalf
of

(Insert name and address of organisation)

(Insert name and address of organisation)

Name &
signature
of witness

Date

C1.2 ECC3 Contract Data

Part one - Data provided by the *Employer*

Clause	Statement	Data
1	General	
	The <i>conditions of contract</i> are the core clauses and the clauses for main Option	
		B: Priced contract with Bill of Quantities
	dispute resolution Option	W1: Dispute resolution procedure
	and secondary Options	
		X2 Changes in the law
		X5: Sectional Completion
		X7: Delay damages
		X16: Retention
		X18: Limitation of liability
		Z: <i>Additional conditions of contract</i>
	of the NEC3 Engineering and Construction Contract, April 2013 (ECC3)	
10.1	The <i>Employer</i> is (Name):	Eskom RoteK Industries – Construction Services
		Eskom RoteK Industries Building Lower Germiston Road Rosherville Cleveland 2022
	Address	
10.1	The <i>Project Manager</i> is: (Name)	Theona Dzingwa
	Address	Eskom RoteK Industries Building Lower Germiston Road Rosherville Cleveland 2022



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	Tel	011 321 4000	
	e-mail	DzingwTB@eskom.co.za	
10.1	The <i>Supervisor</i> is: (Name)	TBC	
	Address	Eskom Rotek Industries SOC Ltd Lower Germiston Road Rosherville Cleveland 2022	
	Tel No.	011 621 3000	
	e-mail	TBC	
11.2(13)	The <i>works</i> are	Rehabilitation of Rosherville Roof Structures	
11.2(14)	The following matters will be included in the Risk Register	Risk to be identified at the risk meeting	
11.2(15)	The <i>boundaries of the site</i> are	Rosherville Farm	
11.2(16)	The Site Information is in	Part 4: Site Information	
11.2(19)	The Works Information is in	Part 3: Scope of Work and all documents and drawings to which it makes reference.	
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa	
13.1	The <i>language of this contract</i> is	English	
13.3	The <i>period for reply</i> is	One (1) week	
2	The <i>Contractor's</i> main responsibilities	Data required by this section of the core clauses is provided by the <i>Contractor</i> in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data.	
3	Time		
11.2(3)	The <i>completion date</i> for the whole of the <i>works</i> is	30 December 2024	
	Contractual end date is	28 February 2025	
11.2(9)	The <i>key dates</i> and the <i>conditions</i> to be met are:	<i>Condition to be met</i>	<i>key date</i>
		1 Rehabilitation of BMS&CS	TBC based on the Contractor's programme of works
		2 Rehabilitation of Canteen	
		3 Rehabilitation of RMFW01	
		4 Rehabilitation of T&SS	
		5 Rehabilitation of Training Centre	

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30.1	The <i>access dates</i> are:	01 March 2024
31.1	The <i>Contractor</i> is to submit a first programme for acceptance within	One (1) weeks of the Contract Date.
31.2	The <i>starting date</i> is	01 March 2024
32.2	The <i>Contractor</i> submits revised programmes at intervals no longer than	One (1) week.
35.1	The <i>Employer</i> is not willing to take over the <i>works</i> before the Completion Date.	
4	Testing and Defects	
42.2	The <i>defects date</i> is	Fifty-two (52) weeks after Completion of the completed work at each site
43.2	The <i>defect correction period</i> is	One (1) week
5	Payment	
50.1	The <i>assessment interval</i> is	Between the 20 days of each successive month.
51.1	The <i>currency of this contract</i> is the	South African Rand.
51.2	The period within which payments are made is	Four (4) weeks.
51.4	The <i>interest rate</i> is	the publicly quoted prime rate of interest (calculated on a 365 day year) charged from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands.

6	Compensation events	
60.1(13)	The place where weather is to be recorded is:	The <i>Contractor's</i> Site Establishment Area on site



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The *weather measurements* to be recorded for each calendar month are,

the cumulative rainfall (mm)

the number of days with rainfall more than 10 mm

the number of days with minimum air temperature less than 0 degrees Celsius

the number of days with snow lying at 09:00 hours South African Time

and these measurements:

The *weather measurements* are supplied by

The South African Weather Bureau

The *weather data* are the records of past *weather measurements* for each calendar month which were recorded at:

Weather station closest to site monitored by South African Weather Bureau

and which are available from:

the South African Weather Service 012 367 6023 info@weathersa.co.za

7	Title	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
8	Risks and insurance	
80.1	These are additional <i>Employer's</i> risks	None
84.1	The <i>Employer</i> provides these insurances from the Insurance Table	as stated for "Format A" available on http://www.eskom.co.za/Tenders/InsurancePoliciesProcedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx
84.1	The <i>Employer</i> provides these additional insurances	as stated for "Format A" available on http://www.eskom.co.za/Tenders/InsurancePoliciesProcedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx
84.1	The <i>Contractor</i> provides these additional insurances:	Whatever the <i>Contractor</i> deems necessary in addition to that provided by the <i>Employer</i> .
84.2	The minimum limit of indemnity for insurance in respect of loss of or damage to property (except the <i>works</i> , Plant, Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Contractor</i>) caused by activity in connection with this contract for any one event is	Whatever the <i>Contractor</i> deems necessary in addition to that provided by the <i>Employer</i> .
84.2	The minimum limit of indemnity for insurance in respect of death of or bodily injury to employees of the <i>Contractor</i> arising out of and in the course of their employment in connection with this contract for any one event is	As prescribed by the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 and the <i>Contractor's</i> common law liability for people falling outside the scope of the Act with a limit of Indemnity of not less than R500 000 (Five hundred thousand Rand).

9 Termination

There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.

10	Data for main Option clause		
B	Priced contract with Bill of quantities	Option B	
11	Data for Option W1		
W1.1	The <i>Adjudicator</i> is	the person selected from the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering Panel of Adjudicators by the Party intending to refer a dispute to him. (see www.ice-sa.org.za). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).	
W1.2(3)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA a joint Division of the South African Institution of Civil Engineering and the London Institution of Civil Engineers. (See www.ice-sa.org.za) or its successor body.	
W1.4(2)	The <i>tribunal</i> is:	arbitration.	
W1.4(5)	The <i>arbitration procedure</i> is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.	
	The place where arbitration is to be held is	South Africa	
	The person or organization who will choose an arbitrator		
	- if the Parties cannot agree a choice or - if the arbitration procedure does not state who selects an arbitrator, is	the Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.	
12	Data for secondary Option clauses		
X2	Changes in the law	There is no reference to Contract Data in this Option and terms in italics are identified elsewhere in this Contract Data.	
X5	Sectional Completion		
X5.1	The <i>completion date</i> for each <i>section</i> of the <i>works</i> is:	Section	Description
			Completion date
		1	Rehabilitation of BMS and CS
		2	Rehabilitation of Canteen
			TBC
			TBC



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		3	Rehabilitation of RMFW01	TBC
		4	Rehabilitation of T&SS	TBC
		5	Rehabilitation of Training centre	TBC
X5 & X7	Sectional Completion and delay damages used together			
X7.1 X5.1	Delay damages for late Completion of the sections of the works are:	section	Description	Amount per day
			Rehabilitation of BMS and CS	R2500
			Rehabilitation of Canteen	R2500
	Remainder of the works		Rehabilitation of RMFW01	R2500
			Rehabilitation of T&SS	R2500
			Rehabilitation of Training centre	R2500
	The total delay damages payable by the Contractor does not exceed:	10% of the contract value		
X15	Limitation of the Contractor's liability for his design to reasonable skill & care	N/A		
X16	Retention (not used with Option B)	10%		
X16.1	The retention percentage is	10 % of the contract value.		
X18	Limitation of liability			
X18.1	The Contractor's liability to the Employer for indirect or consequential loss is limited to:	R0.0 (zero Rand)		
X18.2	For any one event, the Contractor's liability to the Employer for loss of or damage to the Employer's property is limited to:	the amount of the deductibles relevant to the event described in the insurance policy format selected in the data for clause 84.1 above, which policy is available on http://www.eskom.co.za/Tenders/InsurancePoliciesProcedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx		
X18.3	The Contractor's liability for Defects due to his design which are not listed on the Defects Certificate is limited to	The greater of <ul style="list-style-type: none">the total of the Prices at the Contract Date andthe amounts excluded and unrecoverable from the Employer's assets policy for correcting the Defect (other than the resulting physical damage which is not excluded) plus R15M first amount payable in terms of the Employer's assets policy.		

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X18.4	The <i>Contractor's</i> total liability to the <i>Employer</i> for all matters arising under or in connection with this contract, other than excluded matters, is limited to:	the total of the Prices other than for the additional excluded matters.
		The <i>Contractor's</i> total liability for the additional excluded matters is not limited.
		The additional excluded matters are amounts for which the <i>Contractor</i> is liable under this

		<p>contract for</p> <ul style="list-style-type: none"> • Defects due to his design which arise before the Defects Certificate is issued, • Defects due to manufacture and fabrication outside the Site, • loss of or damage to property (other than the <i>works, Plant and Materials</i>), <ul style="list-style-type: none"> • death of or injury to a person and • infringement of an intellectual property right.
X18.5	The <i>end of liability date</i> is	<p>(i) seven (7) years after the <i>defects date</i> for latent Defects and</p> <p>(ii) the date on which the liability in question prescribes in accordance with the Prescription Act No. 68 of 1969 (as amended or in terms of any replacement legislation) for any other matter.</p> <p>A latent Defect is a Defect which would not have been discovered on reasonable inspection by the <i>Employer</i> or the <i>Supervisor</i> before the <i>defects date</i>, without requiring any inspection not ordinarily carried out by the <i>Employer</i> or the <i>Supervisor</i> during that period. If the <i>Employer</i> or the <i>Supervisor</i> do undertake any inspection over and above the reasonable inspection, this does not place a greater responsibility on the <i>Employer</i> or the <i>Supervisor</i> to have discovered the Defect.</p>
Z	The <i>Additional conditions of contract</i> are	Z1 to Z15 always apply.
Z1	Cession delegation and assignment	
	Z1.1	The <i>Contractor</i> does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the <i>Employer</i> .
	Z1.2	Notwithstanding the above, the <i>Employer</i> may on written notice to the <i>Contractor</i> cede and delegate its rights and obligations under this contract to any of its subsidiaries or any of its present divisions or operations which may be converted into separate legal entities as a result of the restructuring of the Electricity Supply Industry.
Z2	Joint ventures	
	Z2.1	If the <i>Contractor</i> constitutes a joint venture, consortium or other unincorporated grouping of two or more persons or organisations then these persons or organisations are deemed to be jointly and severally liable to the <i>Employer</i> for the performance of this contract.
	Z2.2	Unless already notified to the <i>Employer</i> , the persons or organisations notify the <i>Project Manager</i> within two weeks of the Contract Date of the key person who has the authority to bind

the *Contractor* on their behalf.

- Z2.3 The *Contractor* does not alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without the consent of the *Employer* having been given to the *Contractor* in writing.

Z3 Change of Broad Based Black Economic Empowerment (B-BBEE) status

- Z3.1 Where a change in the *Contractor's* legal status, ownership or any other change to his business composition or business dealings results in a change to the *Contractor's* B-BBEE status, the *Contractor* notifies the *Employer* within seven days of the change.
- Z3.2 The *Contractor* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Project Manager* within thirty days of the notification or as otherwise instructed by the *Project Manager*.
- Z3.3 Where, as a result, the *Contractor's* B-BBEE status has decreased since the Contract Date the *Employer* may either re-negotiate this contract or alternatively, terminate the *Contractor's* obligation to Provide the Works.
- Z3.4 Failure by the *Contractor* to notify the *Employer* of a change in its B-BBEE status may constitute a reason for termination. If the *Employer* terminates in terms of this clause, the procedures on termination are P1, P2 and P3 as stated in clause 92, and the amount due is A1 and A3 as stated in clause 93.

Z4 Ethics

- Z4.1 Any offer, payment, consideration, or benefit of any kind made by the *Contractor*, which constitutes or could be construed either directly or indirectly as an illegal or corrupt practice, as an inducement or reward for the award or in execution of this contract constitutes grounds for terminating the *Contractor's* obligation to Provide the Works or taking any other action as appropriate against the *Contractor* (including civil or criminal action).
- Z4.2 The *Employer* may terminate the *Contractor's* obligation to Provide the Works if the *Contractor* (or any member of the *Contractor* where the *Contractor* constitutes a joint venture, consortium or other unincorporated grouping of two or more persons or organisations) is found guilty by a competent court, administrative or regulatory body of participating in illegal or corrupt practices.
- Such practices include making of offers, payments, considerations, or benefits of any kind or otherwise, whether in connection with any procurement process or contract with the *Employer* or other people or organisations and including in circumstances where the *Contractor* or any such member is removed from the an approved vendor data base of the *Employer* as a consequence of such practice.
- Z4.3 Notwithstanding the provisions of core clause 90.2, the procedures on termination in terms of this clause are P1, P2 and P3 as stated in the core clause 92 and the amount due is A1 and A3 as stated in core clause 93.

Z5 Confidentiality

- Z5.1 The *Contractor* does not disclose or make any information arising from or in connection with this contract available to Others. This undertaking does not, however, apply to information which at the time of disclosure or thereafter, without default on the part of the *Contractor*, enters the public domain or to information which was already in the possession of the *Contractor* at the



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time of disclosure (evidenced by written records in existence at that time). Should the *Contractor* disclose information to Others in terms of clause 25.1, the *Contractor* ensures that the provisions of this clause are complied with by the recipient.

Z5.2 If the *Contractor* is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the *Project Manager*.

Z5.3 In the event that the *Contractor* is, at any time, required by law to disclose any such information which is required to be kept confidential, the *Contractor*, to the extent permitted by law prior to disclosure, notifies the *Employer* so that an appropriate protection order and/or any other action can be taken if possible, prior to any disclosure. In the event that such protective order is not, or cannot, be obtained, then the *Contractor* may disclose that portion of the information which it is required to be disclosed by law and uses reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed.

Z5.4 The taking of images (whether photographs, video footage or otherwise) of the *works* or any portion thereof, in the course of Providing the Works and after Completion, requires the prior written consent of the *Project Manager*. All rights in and to all such images vests exclusively in the *Employer*.

Z5.5 The *Contractor* ensures that all his Subcontractors abide by the undertakings in this clause.

Z6 Waiver and estoppel: Add to core clause 12.3:

Z6.1 Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, the *Project Manager*, the *Supervisor*, or the *Adjudicator* does not constitute a waiver of rights, and does not give rise to an estoppel unless the Parties agree otherwise and confirm such agreement in writing.

Z7 Health, safety and the environment: Add to core clause 27.4

Z7.1 The *Contractor* undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the execution of the *works*. Without limitation the *Contractor*:

- accepts that the *Employer* may appoint him as the "Principal Contractor" (as defined and provided for under the Construction Regulations 2014 (promulgated under the Occupational Health & Safety Act 85 of 1993) ("the Construction Regulations") for the Site;
- warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with the Construction Regulations, all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this contract and generally for the proper maintenance of health & safety in and about the execution of *works*; and
- undertakes, in and about the execution of the *works*, to comply with the Construction Regulations and with all applicable health & safety laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the *Contractor's* direction and control, likewise observe and comply with the foregoing.

Z7.2 The *Contractor*, in and about the execution of the *works*, complies with all applicable environmental laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the *Contractor's* direction and control, likewise observe and comply with the foregoing.

Z8 Provision of a Tax Invoice and interest. Add to core clause 51

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Z8.1 Within one week of receiving a payment certificate from the *Project Manager* in terms of core clause 51.1, the *Contractor* provides the *Employer* with a tax invoice in accordance with the *Employer's* procedures stated in the Works Information, showing the amount due for payment equal to that stated in the payment certificate.

Z8.2 If the *Contractor* does not provide a tax invoice in the form and by the time required by this contract, the time by when the *Employer* is to make a payment is extended by a period equal in time to the delayed submission of the correct tax invoice. Interest due by the *Employer* in terms of core clause 51.2 is then calculated from the delayed date by when payment is to be made.

Z8.3 The *Contractor* (if registered in South Africa in terms of the companies Act) is required to comply with the requirements of the Value Added Tax Act, no 89 of 1991 (as amended) and to include the *Employer's* VAT number 4740101508 on each invoice he submits for payment.

Z9 Notifying compensation events

Z9.1 Delete from the last sentence in core clause 61.3, "unless the *Project Manager* should have notified the event to the *Contractor* but did not".

Z10 Employer's limitation of liability

Z10.1 The *Employer's* liability to the *Contractor* for the *Contractor's* indirect or consequential loss is limited to R0.00 (zero Rand)

Z10.2 The *Contractor's* entitlement under the indemnity in 83.1 is provided for in 60.1(14) and the *Employer's* liability under the indemnity is limited.

Z11 Termination: Add to core clause 91.1, at the second main bullet point, fourth sub-bullet point, after the words "against it":

Z11.1 or had a business rescue order granted against it.

Z12 Addition to secondary Option X7 Delay damages (if applicable in this contract)

Z12.1 If the amount due for the *Contractor's* payment of delay damages reaches the limits stated in this Contract Data for Option X7 or Options X5 and X7 used together, the *Employer* may terminate the *Contractor's* obligation to Provide the Works using the same procedures and payment on termination as those applied for reasons R1 to R15 or R18 stated in the Termination Table.

Z13 Insurance

Z 13.1 Replace core clause 84 with the following:

Type text here

Insurance cover 84

84.1 When requested by a Party, the other Party provides certificates from his insurer or broker stating that the insurances required by this contract are in force.

84.2 The *Contractor* provides the insurances stated in the Insurance Table A.



- 84.3** The insurances provide cover for events which are at the *Contractor's* risk from the *starting date* until the earlier of Completion and the date of the termination certificate.

INSURANCE TABLE A

Insurance against	Minimum amount of cover or minimum limit of indemnity
Loss of or damage to the works, Plant and Materials	The replacement cost where not covered by the <i>Employer's</i> insurance The <i>Employer's</i> policy deductible as at Contract Date, where cover by the <i>Employer's</i> insurance
Loss of or damage to Equipment	The replacement cost
Liability for loss of or damage to property (except the works, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Contractor</i>) caused by activity in connection with this contract	<u>Loss of or damage to property</u> <u>Employer's property</u> The replacement cost where not covered by the <i>Employer's</i> insurance The <i>Employer's</i> policy deductible as at Contract Date, where cover by the <i>Employer's</i> insurance <u>Other property</u> The replacement cost <u>Bodily injury to or death of a person</u> The amount required by applicable law
Liability for death of or bodily injury to employees of the <i>Contractor</i> arising out of and in the course of their employment in connection with this contract	The amount required by the applicable law

Z 13.2

Replace core clause 87 with the following:

The *Employer* provides the insurances stated in the Insurance Table B.

INSURANCE TABLE B

Insurance against or name of policy	Minimum amount of cover or minimum of indemnity
Assets All Risk	Per the insurance policy document
Contract Works insurance	Per the insurance policy document
Environmental Liability	Per the insurance policy document
General and Public Liability	Per the insurance policy document
Transportation (Marine)	Per the insurance policy document
Motor Fleet and Mobile	Per the insurance policy document

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Plant	
Terrorism	Per the insurance policy document
Cyber Liability	Per the insurance policy document
Nuclear Material Damage and Business Interruption	Per the insurance policy document
Nuclear Material Damage Terrorism	Per the insurance policy document

Z14 Nuclear Liability

- Z14.1 The *Employer* is the operator of the Koeberg Nuclear Power Station (KNPS), a nuclear installation, as designated by the National Nuclear Regulator of the Republic of South Africa, and is the holder of a nuclear licence in respect of the KNPS.
- Z14.2 The *Employer* is solely responsible for and indemnifies the *Contractor* or any other person against any and all liabilities which the *Contractor* or any person may incur arising out of or resulting from nuclear damage, as defined in Act 47 of 1999, save to the extent that any liabilities are incurred due to the unlawful intent of the *Contractor* or any other person or the presence of the *Contractor* or that person or any property of the *Contractor* or such person at or in the KNPS or on the KNPS site, without the permission of the *Employer* or of a person acting on behalf of the *Employer*.
- Z14.3 Subject to clause Z14.4 below, the *Employer* waives all rights of recourse, arising from the aforesaid, save to the extent that any claims arise or liability is incurred due or attributable to the unlawful intent of the *Contractor* or any other person, or the presence of the *Contractor* or that person or any property of the *Contractor* or such person at or in the KNPS or on the KNPS site, without the permission of the *Employer* or of a person acting on behalf of the *Employer*.
- Z14.4 The *Employer* does not waive its rights provided for in section 30 (7) of Act 47 of 1999, or any replacement section dealing with the same subject matter.
- Z14.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

Z15 Asbestos

For the purposes of this Z-clause, the following definitions apply:

- AAIA** means approved asbestos inspection authority.
- ACM** means asbestos containing materials.
- AL** means action level, i.e. a level of 50% of the OEL, i.e. 0.1 regulated asbestos fibres per ml of air measured over a 4 hour period. The value at which proactive actions is required in order to control asbestos exposure to prevent exceeding the OEL.
- Ambient Air** means breathable air in area of work with specific reference to breathing zone, which is defined to be a virtual area within a radius of approximately 30cm from the nose inlet.
- Compliance Monitoring** means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
- OEL** means occupational exposure limit.



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Parallel Measurements	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
Safe Levels	means airborne asbestos exposure levels conforming to the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
Standard	means the <i>Employer's</i> Asbestos Standard 32-303: Requirements for Safe Processing, Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos Containing Material, Equipment and Articles.
SANAS	means the South African National Accreditation System.
TWA	means the average exposure, within a given workplace, to airborne asbestos fibres, normalised to the baseline of a 4 hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

- Z15.1 The *Employer* ensures that the Ambient Air in the area where the *Contractor* will Provide the Services conforms to the acceptable prescribed South African standard for asbestos, as per the regulations published in GNR 155 of 10 February 2002, under the Occupational Health and Safety Act, 1993 (Act 85 of 1993) ("Asbestos Regulations"). The OEL for asbestos is 0.2 regulated asbestos fibres per millilitre of air as a 4-hour TWA, averaged over any continuous period of four hours, and the short term exposure limit of 0.6 regulated asbestos fibres per millilitre of air as a 10-minute TWA, averaged over any 10 minutes, measured in accordance with HSG248 and monitored according to HSG173 and OESSM.
- Z15.2 Upon written request by the *Contractor*, the *Employer* certifies that these conditions prevail. All measurements and reporting are effected by an independent, competent, and certified occupational hygiene inspection body, i.e. a SANAS accredited and Department of Employment and Labour approved AAIA. The *Contractor* may perform Parallel Measurements and related control measures at the *Contractor's* expense. For the purposes of compliance, the results generated from Parallel Measurements are evaluated only against South African statutory limits as detailed in clause Z15.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.
- Z15.3 The *Employer* manages asbestos and ACM according to the Standard.
- Z15.4 In the event that any asbestos is identified while Providing the Services, a risk assessment is conducted and if so required, with reference to possible exposure to an airborne concentration of above the AL for asbestos, immediate control measures are implemented, and relevant air monitoring conducted in order to declare the area safe.
- Z15.5 The *Contractor's* personnel are entitled to stop working and leave the contaminated area forthwith until such time that the area of concern is declared safe by either Compliance Monitoring or an AAIA approved control measure intervention, for example, per the emergency asbestos work plan, if applicable.
- Z15.6 The *Contractor* continues to Provide the Services, without additional control measures presented, on presentation of Safe Levels. The contractually agreed dates to Provide the Services, including the Completion Date, are adjusted accordingly. The contractually agreed dates are extended by the notification periods required by regulations 3 and 21 of the Asbestos Regulations, 2001.

Type text here

Annexure B: Insurance provided by the Employer

These notes are provided as guidance to tendering Contractors and the Contractor about the insurance provided by the Employer. The Contractor must obtain its own advice. Details of the insurance itself are available from the internet web link given below.

1. For the purpose of works contracts, insurance provided by Eskom (the *Employer*) has been arranged on the basis of “project” or “contract” value, where the value is the total of the Prices at Completion of the whole of the works including VAT.

A “project” is a collection of contracts or work packages to be undertaken as part of a single identified capital expansion or refurbishment of a particular asset or facility.

A “contract” is a single contract not linked to or being part of a “project”.

2. For ECC3 there are three main “formats” of cover and deductible structure; Format A, Format B and Format Dx.

Format A is for a project or contract value less than or equal to R350M (three hundred and fifty million Rand) inclusive of VAT.

Format B is for a project or contract value greater than R350M. (three hundred and fifty million Rand) inclusive of VAT.

In the case of contracts / packages within a project:

- For a contract / package of R50M which is part of a R400M project, Format B will apply
- For a contract / package of R250M which is part of a R6 billion project, Format B will apply;
- For a contract / package of R120M which is part of a R350M project Format A will apply;

For a contract which is not part of a project the same limits apply:

- For a contract of R50M, Format A will apply
- For a contract of R355M, Format B will apply.

Format Dx applies only to Distribution Division projects and contracts. If a Distribution Division project or contract exceeds the Format A limit, the Eskom Insurance Management Services [EIMS] need to be contacted for advice on how to formulate the insurance cover. Cover and deductibles for Distribution Division are per the relevant policy available on the internet web link given below.

Format A generally applies to Transmission Division projects and contracts. If a Transmission Division project or contract exceeds the Format A limit, the Eskom Insurance Management Services [EIMS] need to be contacted for advice on how to formulate the insurance cover.

3. Tendering *Contractors* should note that cover provided by the *Employer* is only per the policies available on the internet web link listed below and may not be the cover required by the tendering *Contractor* or as intended by each of the listed insurances in the left hand column of the Insurance Table in clause 84.2. In terms of clause 84.1 “the *Contractor* provides the insurances stated in the Insurance Table except any insurance which the *Employer* is to provide”. Hence the *Contractor* provides insurance which the *Employer* does not provide and in cases where the *Employer* does provide insurance the *Contractor* insures for the difference between what the Insurance Table requires and what the *Employer* provides.
4. When the Marine Insurance is required, the *Contractor* needs to obtain a copy of the latest edition of Eskom’s Marine Policies Procedures found at internet website given below.
5. Further information and full details of all Eskom provided policies and procedures may be obtained from:

C1.2 Contract Data

Part two - Data provided by the *Contractor*

[Instructions to the contract compiler: (delete this notes before issue to tenderers with an enquiry)

Whenever a cell is shaded in the left hand column it denotes this data is optional. If not required select and delete the whole row, otherwise insert the required Data.]

Notes to a tendering *Contractor*:

1. Please read both the NEC3 Engineering and Construction Contract (April 2013) and the relevant parts of its Guidance Notes (ECC3-GN)¹ in order to understand the implications of this Data which the tenderer is required to complete. An example of the completed Data is provided on pages 156 to 158 of the ECC3 (April 2013) Guidance Notes.
2. The number of the clause which requires the data is shown in the left hand column for each statement however other clauses may also use the same data

Completion of the data in full, according to Options chosen, is essential to create a complete contract.

Clause	Statement	Data
10.1	The <i>Contractor</i> is (Name): Address Tel No. Fax No.	
11.2(8)	The <i>direct fee percentage</i> is The <i>subcontracted fee percentage</i> is	% %
11.2(18)	The <i>working areas</i> are the Site and	
24.1	The <i>Contractor's</i> key persons are: 1 Name: Job: Responsibilities: Qualifications: Experience: 2 Name: Job Responsibilities: Qualifications:	Type text here

¹ Available from Engineering Contract Strategies Tel 011 803 3008, Fax 011 803 3009 or see www.ecs.co.za

Rehabilitation of Rosherville Roof Structures

	Experience:	CV's (and further key persons data including CVs) are appended to Tender Schedule entitled .
11.2(3)	The <i>completion date</i> for the whole of the <i>works</i> is	
11.2(14)	The following matters will be included in the Risk Register	
11.2(19)	The Works Information for the <i>Contractor's</i> design is in:	
31.1	The programme identified in the Contract Data is	

ECC3 Option B

Bill of Quantities attached

Document reference	Title	No of pages
C2.1	Pricing assumptions: Option B	
C2.2	The bill of quantities	8

C2.1 Pricing assumptions: Option B

The *conditions of contract*

How work is priced and assessed for payment

Clause 11 in NEC3 Engineering and Construction Contract, June 2005 (ECC3) Option B states:

Identified and defined terms	11	
	11.2	(21) The Bill of Quantities is the <i>bill of quantities</i> as changed in accordance with this contract to accommodate implemented compensation events and for accepted quotations for acceleration.
		(28) The Price for Work Done to Date is the total of the quantity of the work which the <i>Contractor</i> has completed for each item in the Bill of Quantities multiplied by the rate and a proportion of each lump sum which is the proportion of the work covered by the item which the <i>Contractor</i> has completed. Completed work is work without Defects which would either delay or be covered by immediately following work. (31) The Prices are the lump sums and the amounts obtained by multiplying the rates by the quantities for the items in the Bill of Quantities.

This confirms that Option B is a re-measurement contract, and the bill comprises only items measured using quantities and rates or stated as lump sums. Value related items are not used. Time related items are items measured using rates where the rate is a unit of time.

Function of the Bill of Quantities

Clause 55.1 in Option B states, "Information in the Bill of Quantities is not Works Information or Site Information". This confirms that instructions to do work or how it is to be done are not included in the Bill, but in the Works Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Works in accordance with the Works Information". Hence the *Contractor* does **not** Provide the Works in accordance with the Bill of Quantities. The Bill of Quantities is only a pricing document.

Guidance before pricing and measuring

Employers preparing tenders or contract documents, and tendering contractors are advised to consult the



Rehabilitation of Rosherville Roof Structures

sections dealing with the bill of quantities in the NEC3 Engineering and Construction Contract (June 2005) Guidance Notes before preparing the *bill of quantities* or before entering rates and lump sums into the *bill*.

The NEC approach to the P & G bill assumes use will be made of method related charges for Equipment applied to Providing the Works based on durations shown in the Accepted Programme, fixed charges for the use of Equipment that is required throughout the construction phase, time related charges for people working in a supervisory capacity for the period required, and lump sum charges for other facilities or services not directly related to performing work items typically included in other parts of the bill.

The P & G section of the bill is not used for the assessment of compensation events.

Measurement and payment

Symbols

The units of measurement described in the Bill of Quantities are metric units abbreviated as follows:

Abbreviation	Unit
%	percent
h	hour
ha	hectare
kg	kilogram
kl	kilolitre
km	kilometre
km-pass	kilometre-pass
kPa	kilopascal
kW	kilowatt
l	litre
m	metre
mm	millimetre
m ²	square metre
m ² -pass	square metre pass
m ³	cubic metre
m ³ -km	cubic metre-kilometre
MN	meganewton
MN.m	meganewton-metre
MPa	megapascal
No.	number
Prov sum ²	provisional sum
PC-sum	prime cost sum
R/only	Rate only
sum	Lump sum
t	ton (1000kg)
W/day	Work day

General assumptions

Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made in the quantities for waste.

The Prices and rates stated for each item in the Bill of Quantities shall be treated as being fully inclusive of all work, risks, liabilities, obligations, overheads, profit and everything necessary as incurred or required by the Contractor in carrying out or providing that item.

An item against which no Price is entered will be treated as covered by other Prices or rates in the bill of quantities.

² Provisional Sums should not be used unless absolutely unavoidable. Rather include specifications and associated bill items for the most likely scope of work, and then change later using the compensation event procedure if necessary.

Type text here



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The quantities contained in the Bill of Quantities may not be final and do not necessarily represent the actual amount of work to be done. The quantities of work assessed and certified for payment by the Project Manager at each assessment date will be used for determining payments due.

The short descriptions of the items of payment given in the bill of quantities are only for the purposes of identifying the items. Detail regarding the extent of the work entailed under each item is provided in the Works Information.

Departures from the *method of measurement*

Amplification of or assumptions about measurement items

For the avoidance of doubt the following is provided to assist in the interpretation of descriptions given in the *method of measurement*. In the event of any ambiguity or inconsistency between the statements in the *method of measurement* and this section, the interpretation given in this section shall be used.

Type text here



Rehabilitation of Rosherville Roof Structures

	Water Supply	Month	10		
	Electric power and communications / cell phones etc	Month	10		
	Company/head office overhead cost.	Month	10		
	Living accommodation	Month	10		
	Supervision	Month	10		
	Quality Management	Month	10		
	Environmental Management	Month	10		
	<u>HEALTH AND SAFETY & COVID 19 compliance</u>				
	Prepare, submit and obtain approval of safety plan/file and lodge same on site.	SUM	1		
	Personal Protective Equipment	SUM	1		
	Transportation of Employees	Month	10		
	Carried to Summary Page				
2	<u>SECTION B</u> <u>BMS & CONSTRUCTION SERVICE ROOF REHANILITATION</u> <i>Alterations and Demolitions</i> Remove existing Concrete Tiles including insulation and timber trusses Cart away to a registered dump site. <i>Refurbishment</i> <u>PROFILED GALVANISED STEEL SHEETING AND ACCESSORIES</u>	m2	2 076		

Rehabilitation of Rosherville Roof Structure

0,58mm 'Klip-Lok 700' Z200 spelter ISQ550 chromadek dark dolphine finish topcoat and pebble grey backing coat nor similar and approved inter/locking concealed-fix roof sheeting, fixed to steel intermediate purlins at max 2500mm centres and eaves and ridge purlins at max 2100mm centres and including all accessories, fixings, etc. complete and in accordance with the manufacturer's specifications for Roof covering with pitch not exceeding 25 degrees in transportable lengths exceeding 20m and profiled on site.

Roof covering with pitch not exceeding 25 degrees

m2 2 076

Extra over raking cutting and waste

m 527

Flashing

Side wall flashings

m 394

Head wall flashings

m 133

Roof insulation

1200mm X 40m Sisascrim heavy duty roof insulation foil or similar and approved non-combustible as per manufacturers specification

m2 2 076

RAINWATER DISPOSAL

0,80mm Chromadek sheet galvanised downpipes including all brackets, etc

- 100mm Diameter rainwater pipes

m 594

Extra over 100mm diameter rainwater pipe for bend

no 69

Extra over 100mm diameter rainwater pipe for shoe

no 69

0,80mm Chromadek extruded sheet galvanised gutters including all brackets, etc

Gutter size 150 x 150mm powder coated

m 394

Extra for stopped ends to gutter

no 30



Rehabilitation of Rosherville Roof Structures

3	Extra for 100mm diameter rainwater outlets	no	15		
	<u>WATERPROOFING</u>				
	USB green liner	m2	2 076		
	<u>BUDGETARY ALLOWANCE</u>				
	Provide a sum of Five Hundred Thousand (R500 000.00) for making good after the roof rehabilitation, at the discretion of the engineer or principal agent	sum	1	R500 000,00	R 500 000,00
	<i>carried to summary page</i>				
	<u>SECTION C</u>				
	<u>CANTEEN ROOF REHABILITATION</u>				
	<i>Alterations and Demolitions</i>				
	Remove existing IBR Sheets including insulation and timber trusses Cart away to a registered dump site.	m2	2 060		
	<i>Refurbishment</i>				
	<u>Making good of finishes, etc</u>				
	New sheeting to match existing and waterproofing to be done at joints prior to sheets being installed	m2	2 060		
	Existing sisalation to be replaced with alububble 1983 reflective foil, with new straining wires, as per manufacturers instruction	m2	2 060		
	Junction of roof sheeting to be re-flashed with appropriate profile to create sealed envelope	m	182		
	Clean out drainage system	m	182		
	Supply and application of gamazine on columns, upstand beams and soffits of slab	m2	150		
	Supply and installation of Waterproofing	m2	2 060		
	<u>BUDGETARY ALLOWANCE</u>				



Rehabilitation of Rosherville Roof Structure

	Provide a sum of Five Hundred Thousand Rand (R500 000.00) for making good after the roof rehabilitation, at the discretion of the engineer or principal agent	sum	1	R 500 000,00	R 850 000,00
	Provide the sum of Hundred Thousand Rand (R100 000,00) for invention testing of roof top screed, at the discretion of the engineer or principal agent		1	R 100 000,00	R 100 000,00
	Provide the sum of One Hundred Thousand Rand (R100 000) for remedial works to concrete, including waterproofing and insulation with (SP4, 40mm polystyrene, Bidim layer and 19mm stones) to be executed complete		1	R 100 000,00	R 100 000,00
Carried to summary page					
4	<p><u>SECTION D</u></p> <p><u>REHABILITATION OF T&SS BUILDING</u></p> <p><i>Alterations and Demolitions</i></p> <p>Remove existing Concrete Tiles including insulation and timber trusses Cart away to a registered dump site.</p> <p><i>Refurbishment</i></p> <p><u>PROFILED GALVANISED STEEL SHEETING AND ACCESSORIES</u></p> <p><u>0,58mm 'Klip-Lok 700' Z200 spelter ISQ550 chromadek dark dolphine finish topcoat and pebble grey backing coat nor similar and approved interlocking concealed-fix roof sheeting, fixed to steel intermediate purlins at max 2500mm centres and eaves and ridge purlins at max 2100mm centres and including all accessories, fixings, etc. complete and in accordance with the manufacturer's specifications for Roof covering with pitch not exceeding 25 degrees in transportable lengths exceeding 20m and profiled on site.</u></p> <p>Roof covering with pitch not exceeding 25 degrees</p> <p>Extra over raking cutting and waste</p> <p><u>Flashing</u></p>	m2	2 043		
		m2	2 043		
		m	247		



Rehabilitation of Rosherville Roof Structures

Side wall flashings	m	185		
Head wall flashings	m	63		
<u>Roof insulation</u>				
1200mm X 40m Sisacrim heavy duty roof insulation foil or similar and approved non-combustible as per manufacturers specification	m2	2 043		
<u>RAINWATER DISPOSAL</u>				
<u>0,80mm Chromadek sheet galvanised downpipes including all brackets, etc</u>				
100mm Diameter rainwater pipes	m	76		
Extra over 100mm diameter rainwater pipe for bend	no	11		
Extra over 100mm diameter rainwater pipe for shoe	no	11		
<u>0,80mm Chromadek extruded sheet galvanised gutters including all brackets, etc</u>				
Gutter size 150 x 150mm powder coated	m	185		
Extra for stopped ends to gutter	no	8		
Extra for 100mm diameter rainwater outlets	no	4		
<u>WATERPROOFING</u>				
- USB green liner	m2	2 043		
<u>BUDGETARY ALLOWANCE</u>				
Provide a sum of Five Hundred Thousand Rand (R500 000.00) for making good after the roof rehabilitation, at the discretion of the engineer or principal agent	Sum	1	R 500 000,00	R 500 000,00
<i>Carried to Summary Page</i>				
<u>SECTION E</u>				
<u>REHABILITATION OF RMFW01</u>				
<i>Refurbishment</i>				

Rehabilitation of Rosherville Roof Structure

<u>Making good of finishes, etc</u>				
Rubberise box gutters	no	6		
Pressure hose clean gutters and strip off paint with turpentine	m	175		
<u>Flashing</u>				
Side wall flashings	m	53		
<u>BUDGETARY ALLOAWANCE</u>				
Provide a sum of Three Hundred Thousand Rands (R300 000) for making good after the roof rehabilitation, at the discretion of the engineer or principal agent	sum	1	R 300 000,00	R 300 000,00
<i>Carried to Summary Page</i>				
<u>SECTION F</u> <u>REHABILITATION OF TRAINING CENTRE/ BICYCLE SHOP</u>				
<i>Alterations and Demolitions</i>				
Remove extisting IBR Sheets including insulation and timber trusses Cart away to a registered dump site.	m2	3 189		
<i>Refurbishment</i>				
<u>PROFILED GALVANISED STEEL SHEETING AND ACCESSORIES</u>				
<u>0,58mm 'Klip-Lok 700' Z200 spelter ISQ550 chromadek dark dolphine finish topcoat and pebble grey backing coat nor similar and approved interlocking concealed-fix roof sheeting, fixed to steel intermediate purlins at max 2500mm centres and eaves and ridge purlins at max 2100mm centres and including all accessories, fixings, etc. complete and in accordance with the manufacturer's specifications for Roof covering with pitch not exceeding 25 degrees in transportable lengths exceeding 20m and profiled on site.</u>				
Roof covering with pitch not exceeding 25 degrees	m2	3 189		



Rehabilitation of Rosherville Roof Structures

Extra over raking cutting and waste	m	229		
<u>Flashing</u>				
Side wall flashings	m	121		
Head wall flashings	m	54		
<u>Roof insulation</u>				
-				
1200mm X 40m Sisascrim heavy duty roof insulation foil or similar and approved non combustible as per manufacturers specification	m2	3 189		
<u>RAINWATER DISPOSAL</u>				
<u>0,80mm Chromadek sheet galvanised downpipes including all brackets, etc</u>				
100mm Diameter rainwater pipes	m	30		
Extra over 100mm diameter rainwater pipe for bend	no	20		
Extra over 100mm diameter rainwater pipe for shoe	no	20		
<u>0,80mm Chromadek extruded sheet galvanised gutters including all brackets, etc</u>				
Gutter size 150 x 150mm powder coated	m	121		
Extra for stopped ends to gutter	no	4		
Extra for 100mm diameter rainwater outlets	no	2		
<u>BUDGETARY ALLOWANCE</u>				
Provide a sum of Three Hundred Thousand Rand (R300 000.00) for making good after the roof rehabilitation, at the discretion of the engineer or principal agent	sum	1	R 300 000,00	R 300 000,00
<i>Carried to Summary Page</i>				
<u>SUMMARY PAGE</u>				
Section A -Preliminaries				
Section B- BMS & Construction Service				



Rehabilitation of Rosherville Roof Structure

Section C- Canteen				
Section D- T&SS				
Section E- RMFW01				
Section F- Training Centre				
Sub-Total				
VAT	15%			
Carried to Form of Tender				



PART 3: SCOPE OF WORK

Document reference	Title	No of pages
	This cover page	1
C3.1	<i>Employer's Works Information</i>	
C3.2	<i>Contractor's Works Information</i>	
	Total number of pages	



C3.1: EMPLOYER'S WORKS INFORMATION

Description of the works

Executive overview

Rehabilitation of Rosherville Roof Structure due the large amount of rain that has been witnessed recently in and around Gauteng, it has resulted in most of the building roof not being able to withstand water leading to the seeping inside the building. This is due to the ageing infrastructure which requires overhaul for it to be good condition and compliant to the safety standard. Since the incident happened, the facility has been identified as the safety risk to employees occupying the building.

Employer's objectives and purpose of the works

Construction Services - Rehabilitation of Rosherville Roof Structure.

The full scope is contracted, including the provision of transport, SHEQ requirements, and supervision of your teams, testing and reporting, and technical support and submission of all the QA/QC documents for handover

Management and start up.

Management meetings

Regular meetings of a general nature may be convened and chaired by the *Project Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Site Meetings including the Risk, scheduling and progress and feedback	Weekly, time to be advised	Site	<i>Employer, Contractor, Subcontractors Supervisor.</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Works Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the works. Records of these meetings shall be submitted to the *Project Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

Documentation control

The *Contractor* will utilise templates provided by Eskom rotek industries for all NEC documents including drawings, minutes etc

Health and safety risk management

The *Contractor* shall comply with the health and safety requirements contained in Annexure to this Works Information.

Environmental constraints and management

The *Contractor* shall comply with the environmental criteria and constraints stated in Annexure

Quality assurance requirements



Rehabilitation of Rosherville Roof Structures

The *Contractor* shall comply with the quality management requirements, criteria and constraints stated in Annexure [REDACTED]

Programming constraints

A programme showing the key activities is to be submitted with the tender documents showing the following:

- The *Contractor* shall provide a detailed programme with easily measurable activities scheduling all of the work.
- It must clearly show linkages between the activities and clearly show the critical path. This must be done on Microsoft Projects and approved by the employer.
- Provide Bar Chart outlining start and completion date for construction activities on site. All critical path items must be identified and outlined on the Bar Chart.
- The order and timing of operations which the *Contractor* plans in order to provide the works.

The programming will be done on Microsoft Projects. The Employer reserves the right to change the application to be utilised for programming during the duration of the project to Primavera. A detailed programme in either Primavera or MS Project to level 3 demonstrating understanding of the Works to be performed as well as the ability to meet key milestone dates is to be provided. The duration will be 9 months consisting of two distinct phases to be completed separately. The entire work including all direct Subcontractors' work will be indicated in a detailed programme.

Strict adherence to the programme will be monitored and updated on a weekly basis to achieve the completion dates and submitted to Project Manager or his delegated representative. Non-conformance to the stated programme will be liable for delay damages. Any deviations on time and cost are subject to Eskom approval.

Contractor's management, supervision and key people

The *Contractor* will submit an organogram for the construction activity showing lines of authority/communication.

Invoicing and payment

The Z clauses make reference to invoicing procedures stated here in this Service Information. Also include a list of information which is to be shown on an invoice.

The *Contractor* will submit his claim as per the NEC Payment Certificate format with supporting Bill of Quantities on the assessment day. The Contract Number must be clearly visible on the NEC Payment Certificate. The *Employer* will assess Payment certificates on actual work completed. Any possible issues regarding the claim will be addressed by the Employer to the *Contractor*. On acceptance of the Payment Certificate by the Employer the *Contractor* submits his invoice as agreed upon with the Employer. Payment will take place as per the NEC Conditions of Contract.

In terms of core clause 50 the *Contractor* assesses the amount due and applies to the Employer for payment. The *Contractor* applies for payment with a tax invoice addressed to the Employer as follows:

The *Contractor* includes the following information on each tax invoice:

- Name and address of the *Contractor*
- The contract number and title;
- *Contractor's* VAT registration number;
- The Employer's VAT registration number 4740101508;
- The total Price for Work Done to Date which the *Contractor* has completed;
- Other amounts to be paid to the *Contractor*;
- Less amounts to be paid by or retained from the *Contractor*

Description of the subcontract works





Insurance provided by the *Employer*



Rehabilitation of Rosherville Roof Structure

First read ECC3 Core Clause 87.1 and then add anything necessary for the management of insurance related issues such as a cross reference to where procedures for making claims can be found. Also provide contact details for persons capable of being able to answer any insurance related queries the *Contractor* may have, as well as to whom the information required by Marine Insurance may be addressed.

Contract change management

Any changes in scope and variations to the scope can only be approved by the Employers representative. The *Contractor* is advised that Eskom processes require an approval of all compensation events by a committee which may not convene when required. Submissions to this committee are dependent on the timeous provision of quotations by the *Contractor*.



As-built drawings, operating manuals and maintenance schedules

The *Contractor* would need to provide 'As built' drawings of the buildings as well as the various services installed. This will include all external work and reticulated services. Operating manuals will be provided for relevant installations and commissioning.

Procurement

Where provisional sums have been provided in the Bill of Quantities for various items, the *Contractor* will be required to provide 3 quotations for the work required to be done by Subcontractors. Subcontractors must meet the statutory requirements related to their field of expertise and comply with the required regulatory accreditations.

People

Minimum requirements of people employed on the Site

All *Contractors* personnel will be subject to access control conditions as per Eskom RoteK industries requirements. All workers employed on site must comply with Eskom's health and safety standards. Workers will not be allowed to be transported on the back of vans or bakkies. Workers must be restricted to the area of activity in close proximity to the construction and not allowed to wonder about other areas of the site or beyond the boundary of the construction site.

BBBEE and referencing scheme

The *Contractor* is expected to remain at the similar BBBEE level or improve to a better level during the period of contract.

The successful tenderer shall be requested to submit detailed plan with milestones on how they shall improve and maintain upon their B-BBEE Contributor Levels of 1 to 4 or to Level 1 - 4.

Subcontract documentation, and assessment of subcontract tenders

The *Contractor* would need to use the NEC Subcontractor agreements. All Subcontractor quotations, for which provisional sums or budgets have been allowed, must first be approved by the Employer or his representative with documentary proof. This must be done well in advance of the planned scheduling of the work.

Limitations on subcontracting

The *Contractor* would need to incorporate the activities of Eskom's direct Subcontractors into the contract works in order to achieve the completion date.

Attendance on Subcontractors

The *Contractor* would need to attend to the activities of all Subcontractors including direct Subcontractors. The responsibility of coordinating the activities of will remain with the main *Contractor*, who will arrange all meetings and interfacing to ensure the activities are aligned to the agreed programme.

Plant and Materials

Quality

The *Contractor* shall comply with the quality management requirements, criteria and constraints stated in Annexure

Plant & Materials provided "free issue" by the Employer

Rehabilitation of Rosherville Roof Structure

The *Contractor* is to verify the suitability of the materials prior to incorporating them into the works. When materials are delivered to the Site, the *Contractor* is to issue the Project Manager with certificates from the supplier(s) confirming that the materials supplied comply with the specifications. This will also apply to any subcontracts.

All plant and or equipment brought to Site must comply with the Employer's Health and Safety requirements and therefore requires an assessment by the Project Manager prior to it working on Site

***Contractor's* procurement of Plant and Materials**

The *Contractor* is to provide own security on site and will be held liable for excess of insurance in case of theft or loss

- Storage and security of material will be the responsibility of the *Contractor* until the Completion Certificate is certified. The *Contractor* is responsible for all costs involved to expedite lost, damaged or stolen material.
- Eskom's Bill of Quantities provided in the price list is provisional.

Contractor to ensure that all materials used is in accordance with Eskom requirements and specification.

Tests and inspections before delivery

The *Contractor* may be required to demonstrate that the *works* can operate as guaranteed by the *Contractor* (in *Contractor's* Works Information) or specified by the *Employer*.

- The *Contractor* is to test ensure the lux levels for the lighting is correct and in accordance to the SANS requirements
- The *Contractor* is to test the backup lighting system to ensure is it fully functional for the required time period.
- The *Contractor* is to provide test cubes for concrete poured.
- The *Contractor* is to provide compaction tests for layer works to driveways and parking

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Construction

This part of the Works Information addresses constraints, facilities, services and rules applicable to the *Contractor* whilst he is doing work on the Site during the construction and maintenance phase. It does not specify the work itself as that is included in Section 6 of the Works Information.

For contracts involving civil works the approach may be to incorporate SANS1200A or SANS 2000 into the contract. Whilst many of the headings below address the same issues, the list of headings below is more comprehensive. If the headings below are used, it may be prudent to delete paragraphs 3, 4 and 5 from 1200A after checking that their requirements have been included below as necessary. A similar approach can be used in contracts involving building works where the Model Trade Preambles are incorporated. Care should be taken to avoid inconsistency or ambiguity between this part of the Works Information and standard specifications incorporated by reference.

Temporary works, Site services & construction constraints

Employer's Site entry and security control, permits, and Site regulations

All *Contractors* personnel will be subject to Eskom security requirements with regard to access to the site. The *Contractor* would need to provide ID numbers and copies of IDs of all personnel who would be working on site. This must be done at least a day prior to access being required.

People restrictions on Site; hours of work, conduct and records

Working after normal working hours and on weekends will require special permission. The Employer must be given adequate notice if this is planned

Health and safety facilities on Site

Environmental controls, fauna & flora, dealing with objects of historical interest

The *Contractor* will ensure that all fauna and flora is preserved and protected during his activity on site. All such flora and fauna will be reinstated after completion of the work.

All waste will be disposed at registered waste disposal sites, with documentary proof of this.

Title to materials from demolition and excavation

Where materials or plant from the construction activity are permitted to be removed, the *Contractor* will refrain from distributing such plant or material to any Eskom staff or other *Contractors* within Eskom premises.

Cooperating with and obtaining acceptance of Others

The areas adjacent to the works will be occupied by Eskom staff. The *Contractor* should ensure that his work is carried out in a manner that causes least disruption and inconvenience to the Eskom staff. Noise levels should be minimised and safe working conditions maintained at all times

Publicity and progress photographs

The *Contractor* may only take photographs with the permission of the *Project Manager*. No interviews or media coverage will be allowed to be given or agreed to by the *Contractor* without the permission of the *Employer*.

Contractor's Equipment

The *Contractor* will keep an inventory of equipment brought to site. This will be verified and acknowledged by Eskom security to allow removal of such equipment when required by the *Contractor*.

Equipment provided by the Employer

None

Site services and facilities



Rehabilitation of Rosherville Roof Structure

An area will be allocated for the *Contractor* to set up a site office and storage facility. The *Contractor* will be responsible for all link services to the allocated site for water sewerage and electricity. The *Contractor* would need to keep the facility safe and tidy in compliance with Eskom's health and safety standards. It would be the *Contractor's* responsibility to secure the materials stored at the facility.

The *Contractor* will provide everything else necessary for providing the Works.

Facilities provided by the *Contractor*

A clearly demarcated area will be provided by the *Contractor* for the following:

- suitable facilities for his employees for changing
- Facilities for the consumption of food
- Site offices
- Toilet/Ablution facilities
- Other temporary facilities required by the *Contractor*
- Appropriate storage facilities for material to be used

Existing premises, inspection of adjoining properties and checking work of Others

The *Contractor* is required to familiarise himself with the location of connection points for water, sewerage, and storm water.

Survey control and setting out of the works

The employer does not have any information on any survey controls. The *Contractor* is required to determine these for setting out of the works.

Any errors or suspected discrepancies with regard to levels, co-ordinates, dimensions or other related aspects of the existing or proposed works that come to light during the execution of the Works is to be brought to the attention of the Project Manager without delay.

Underground services, other existing services, cable and pipe trenches and covers

It remains the *Contractors* responsibility to ensure that all visible overhead services such as electrical lines, telephone lines etc. are protected during construction. It is also the responsibility of the *Contractor* to ensure that the site is inspected to locate any such services that are easily visible and identifiable. It would remain the *Contractor's* responsibility to protect these from damage during construction. Any damage to services, lines etc which the *Contractor* should have reasonably been aware of or inspected will be for the *Contractors* own account.

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Control of noise, dust, water and waste

The *Contractor* is made aware of the fact that an adjacent portion of the site is being utilised by Eskom. The *Contractor* must ensure that his work is conducted with little or no inconvenience to the functioning of the operations of Eskom. Health and safety standards must be maintained as per legislation. The *Contractor* is also required to communicate any possible inconvenience to Eskom, well in advance of the activity. Noise and dust generated from the construction activity must be mitigated.

Sequences of construction or installation

The *Contractor* will allow access to the site to direct *Contractors* employed by Eskom rotek industries to complete their work in coordination with work to be done by the *Contractor*. The *Contractor* must incorporate all of the work to be done by direct or nominated Subcontractor into his programme.

Giving notice of work to be covered up

The *Contractor* must notify the *Supervisor* to inspect reinforcing to foundations prior to the casting of concrete. Compaction tests results to layer works must be verified by the *Supervisor* prior to proceeding with he next layer.

Hook ups to existing works



Completion, testing, commissioning and correction of Defects

Work to be done by the Completion Date

On or before the Completion Date the *Contractor* shall have done everything required to Provide the Works except for the work listed below which may be done after the Completion Date but in any case before the dates stated. The *Project Manager* cannot certify Completion until all the work except that listed below has been done and is also free of Defects which would have, in his opinion, prevented the *Employer* from using the *works* and Others from doing their work.

Item of work	To be completed by
As built drawings of all the works.	Within 30 Days after Completion
Performance testing of the <i>works</i> in use as specified in paragraph of this Works Information.	See performance testing requirements.

Use of the *works* before Completion has been certified

N/A

Materials facilities and samples for tests and inspections

State what materials facilities and samples for tests and inspections the *Contractor* and the *Employer* are to provide, per core clause 40.2.

Commissioning

When the whole or any part of the Works is in a fit and safe condition to operate continuously and prior to issue of a Taking-Over Certificate, the completed Works or part thereof will be tested in accordance with the Works Information and relevant test codes and procedures, to the Project Manager's acceptance, to determine its operational characteristics and performance guarantees and to verify that these are in accordance with the Contract. Testing will be carried out, not necessarily in the following sequence although the Performance Guarantee Tests must be carried out after the Reliability Test Run:

- Tests of correct functioning
- Functional Tests
- Equipment Tests
- Plant Capability Tests
- Reliability Test Run
- Performance Guarantee Tests

The Works must comply with all environmental limitations during start-up, commissioning and testing. All test procedures including functional tests procedures, will be submitted in writing to the Project Manager for acceptance twelve (8) weeks prior to the commencement of the test.

The *Contractor* will be responsible for ensuring the correct implementation of his control functions and protective logic of the control and instrumentation system and to ensure that the control functions and protective logic is fully tested and documented.

The *Contractor* will provide the equipment, calibrated precision instrumentation, specialist and additional staff necessary to conduct the tests. The Project Manager's operational personnel will operate the Works for the tests in accordance with standard practice under the supervision and control of the *Contractor*, but it will be the *Contractor's* responsibility to ensure that all staff is properly instructed in the tasks assigned to them during tests. All liability for the safe and proper operation of the Works during the start-up and testing of the Works remains with the *Contractor*.

Rehabilitation of Rosherville Roof Structure

The tests on completion will be made in accordance with the requirements of this Works Information or otherwise as agreed in writing.

To ensure clear and unambiguous roles, accountability and responsibility and to ensure smooth communications and recorded evidence, the *Contractor* will prepare, and submit twelve (8) weeks prior to the commencement of commissioning, detailed documentation in support of the commissioning strategy to be agreed with the Project Manager and taking into account the requirements of this Section. This documentation will include but not be limited to preparation of the following on a system by system and total Works basis using plant identification system:

- Commissioning Intent Memorandum
- Commissioning Schedule
- Commissioning Procedure
- Test Reports and Check Lists/Sheets

Safety and Hazard assessments, procedures and mitigation measures adopted

Take over procedures

The Building will be deemed ready for occupation when the appropriate 'Occupation Certificate' is issued when all of the following have been satisfied:

- All the Works have been substantially completed, based on reports signed by the Project Manager.
- The Works has passed all the safety, commissioning, operational and emissions tests.
- The Works has completed its Reliability Test Run.
- The Works has fully met its minimum guaranteed performance.
- The Project Manager has received a complete set of "red-lined" (marked up during the commissioning / reliability run periods) Operation & Maintenance Manuals.
- Defects which the Project Manager deems to affect the safety, reliability or availability of the plant have been rectified by the *Contractor* to the satisfaction of the Project Manager.
- The local municipality has issued the certificate of occupancy in accordance with SANS10400

Access given by the *Employer* for correction of Defects

The *Contractor* will advise the *Employer* at least 2 days prior to when access is required to proceed with the rectification of defects. This will be arranged by the *Employer*.

Project Manager may arrange for the *Employer* to allow the *Contractor* access to and use of a part of the *works* which has been taken over if needed to correct a Defect. After the *works* have been put into operation, the *Employer* may require the *Contractor* to undertake certain procedures before such access can be granted (for example barricading a motorway or in a nuclear power station).

Performance tests after Completion

The *Contractor* may be required to demonstrate that the *works* can operate as guaranteed by the *Contractor* (in *Contractor's* Works Information) or specified by the *Employer*.

- The *Contractor* is to test ensure the lux levels for the lighting is correct and in accordance to the SANS requirements
- The *Contractor* is to test the backup lighting system to ensure is it fully functional for the required time period.

Training and technology transfer

N/A

Operational maintenance after Completion

N/A



Rehabilitation of Rosherville Roof Structures

Plant and Materials standards and workmanship

This section of the Works Information contains all the specifications for the work which is left behind; the permanent works. It is likely to be the largest section by far and may even be compiled in volumes, e. g. Section 6 Volume 1: Civil Engineering Works. In design and construct contracts, it may be compiled in accordance with systems within the *works*; e. g. Section 6 Volume 4: Crushers.

Because practice varies widely between employers it is not practical in a general template such as this to deal with all arrangements. Only the discipline based section subheadings are provided below in the order the *works* are likely to be constructed together with some notes of a general nature.

Investigation, survey and Site clearance

The site must be cleared of all debris, shrubs and vegetation prior to construction. The site must be inspected for the availability of water and sewerage services and connections. The *Contractor* must make he aware of the site restrictions with regard to access and the conducting of construction activity on site.



C3.2 CONTRACTOR'S WORKS INFORMATION.

This section of the Works Information will always be contract specific depending on the nature of the *works*. It is most likely to be required for design and construct contracts where the tendering *Contractor* will have proposed specifications and schedules for items of Plant and Materials and workmanship, which once accepted by the *Employer* prior to award of contract now become obligations of the *Contractor* per core clause 20.1.

Typical sub headings could be

- a) *Contractor's* design
- b) Plant and Materials specifications and schedules
- c) Other

This section could also be compiled as a separate file.

Scope

The scope of work entails demolishing of existing roof structure and replacing roof covering with Klip-lok sheets including trusses and or strengthening. This includes application of waterproofing where necessary, supply and installation of rainwater goods for all the buildings as indicated below.

Buildings to be rehabilitated are as follows:

- 1) Bulk Material Services & Construction Services Headquarters ($\pm 1653.50\text{m}^2$ with a hip roof)
- 2) Canteen ($\pm 2006.22\text{m}^2$ with a hip roof)
- 3) Training Centre ($\pm 3246.97\text{m}^2$ with a dual pitch roof)
- 4) RMFW01 ($\pm 8002.84\text{m}^2$ with a dual pitch roof)
- 5) Transformer and Switchgear Services ($\pm 1474.64\text{m}^2$ with a dual pitch roof)

Deliverables:

1. BMS BUILDING
 - Replace roof with global roofing solutions 700mm cover klip-lok (sheeting to be fixed to existing purlins)
 - New gutters at least 150x150mm powder coated,
 - New downpipes 100mm diameter
 - Roof insulation above usb green liner
 - Replace corroded lintel and replaster and paint it,
 - New beam filling around whole perimeter,
 - All ceilings to be inspected for water damaged and be replaced with new (NB: ceiling to be done by others. Approved company to do full installation and provide suitable specified ceiling for space).
2. CANTEEN
 - New sheeting to match existing and waterproofing to be done at joints prior to sheets being installed,
 - Create new drip profile under patio to allow water to not enter building,
 - Clean out drainage system,
 - Create more drain overflows lower than beam filling to hide them from view,
 - Junction of roof sheeting to be re-flashed with appropriate profile to create sealed envelope,
 - Skylight joints to be inspected and sealed where envelope has been damaged,
 - Existing sisalation to be replaced with alububble 1983 reflective foil, with new straining wires, as per manufacturers instruction,
 - All ceilings to be inspected for water damaged and be replaced with new.

Rehabilitation of Rosherville Roof Structures

3. T&SS BUILDING

- Replace roof with global roofing solutions 700mm cover klip-lok (sheeting to be fixed to existing purlins)
- New gutters at least 150x150mm powder coated,
- New downpipes 100mm diameter
- Pressure hose clean gutters and strip off paint with turpentine
- Eaves beam filling to create a sealed building envelope and for pest control,
- Sisascrib heavy duty roof insulation foil 1200mm x 40m.

4. RFMWO1

- Rubberise box gutter,
- Pressure hose clean gutters and strip off paint with turpentine
- Install new flashing min 300mm under roof sheeting and 300mm over side sheeting.

5. TRAINING CENTRE

- Replace roof with global roofing solutions 700mm cover klip-lok (sheeting to be fixed to existing purlins)
- New gutters at least 150x150mm powder coated in approved colour,
- Install new flashing min 300mm under roof sheeting and 300mm over side sheeting,
- Sisascrib heavy duty roof insulation foil 1200mm x 40m.

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On completion manufacturers certificates, guarantees and warranties must be submitted.

COVID 19 compliance

The contractor shall comply with all the requirements set out in the Department of labour issued COVID-19 Occupational Health and Safety Measures in Workplaces COVID-19 (C 19 OHS), 2020 as per Government Gazette 43257 of 29th April 2020. It is required of the contractor to thoroughly study the latest Occupation Health and Safety Measures in Workplaces COVID-19 (C 19 OHS), 2020 that must be read together with and is deemed to be incorporated under this section of the bills of quantities.

Theona Dzingwa
Full Name

Project Manager
Designation


Signature

PART 4: SITE INFORMATION

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C4	This cover page Site Information	1
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PART 4: SITE INFORMATION

General description

Site will be accessible from Monday to Friday 07:00 am 16:30 pm. No access to site will be given over weekends or public holidays unless overtime is applied for and approved.

All overtime application must be completed by Wednesday before the weekend or public holiday wished to be worked upon

