



NEC3 Engineering & Construction Contract

Between **ESKOM HOLDINGS SOC Ltd**
(Reg No. 2002/015527/30)

(Reg No.)

for **MATLA BUILDING FACILITIES REFURBISHMENT**

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CONTRACT No.

Part C1: Agreements & Contract Data

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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: **MATLA BUILDING FACILITIES REFURBISHMENT**

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 A B, C or D	The offered total of the Prices exclusive of VAT is	
	Sub total	
	Value Added Tax @ 15% is	
	The offered total of the amount due inclusive of VAT is ¹	
	(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)

¹ This total is required by the *Employer* for budgeting purposes only. Actual amounts due will be assessed in terms of the *conditions of contract*.

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

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

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto 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)

Bob Phahle

Capacity

General Manager

**for the
Employer**

Eskom Matla Power Station

(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.

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	CSI (Cooperate Social Investment)	The <i>Contractor</i> shall spend 2% of contract value on CSI. The list of CSI projects will be provided by Matla Power Station.
2	Skilled and non-skilled employees	The <i>Contractor</i> will develop local skilled labour at Kriel. The <i>Contractor</i> shall hire non-skilled employees from Kriel community. The list of potential employees from Kriel community will be provided by Matla Power Station.

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 _____

Bob Phahle

Name _____

General Manager

Capacity _____

On behalf of *(Insert name and address of organisation)* _____

Matla Power Station
Private Bag X5012
Kriel, 2271

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	
	dispute resolution Option and secondary Options	A: Priced contract with activity schedule W1: Dispute resolution procedure X2 Changes in the law X7: Delay damages X16: Retention X18: Limitation of liability Z: Additional conditions of contract
	of the NEC3 Engineering and Construction Contract, April 2013 (ECC3)	
10.1	The <i>Employer</i> is (Name):	Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state owned company incorporated in terms of the company laws of the Republic of South Africa
10.1 10.1	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	The <i>Project Manager</i> is: (Name)	
	Address	Matla Power Station Delmas Road Kriel 2271
	Tel	
	Fax	N/A
	e-mail	
10.1	The <i>Supervisor</i> is: (Name)	
	Address	Matla Power Station Delmas Road

**Kriel
2271**

Tel No.

Fax No.

N/A

e-mail

11.2(13) The *works* are

11.2(14) The following matters will be included in the Risk Register

**1. Non-compliance to statutory SHE and legal requirement which could result to injuries, near misses and penalties.
2. Poor system performance due to poor workmanship
3. Excessive dust
4. Disease outbreak
5. Covid-19**

11.2(15) The *boundaries of the site* are **Matla Power Station**

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 *law of the contract* is the law of **the Republic of South Africa**

13.1 The *language of this contract* is **English**

13.3 The *period for reply* is **3 working days**

2 The Contractor's main responsibilities

Data required by this section of the core clauses is provided by the *Contractor* in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data.

3 Time

11.2(3) The *completion date* for the whole of the *works* is

11.2(9)	The <i>key dates</i> and the <i>conditions</i> to be met are:	Condition to be met	key date
		1 Site establishment	As per accepted programme
		2 Renovated Ablution facilities	
		3 Production Boardroom	
		4 Unit 1 to 6 Control Rooms	
		5 Stations Kitchens	

30.1	The <i>access dates</i> are:	Part of the Site	Date
		1 Matla Power station	After contract award
31.2	The <i>starting date</i> is		
32.2	The <i>Contractor</i> submits revised programmes at intervals no longer than	2 days during project execution and once a week during procurement and engineering	
35.1	The <i>Employer</i> is not willing to take over the <i>works</i> before the Completion Date.	Full takeover must be from commissioning of the works	

4 Testing and Defects

42.2	The <i>defects date</i> is	52 weeks after Completion of the whole of the works.	
43.2	The <i>defect correction period</i> is	1 weeks	
	except that the <i>defect correction period</i> for	Production loss and SHE requirements is 24hrs	
	and the <i>defect correction period</i> for	Low risk (as determined by the <i>Employer</i>) is 1 week	

5 Payment

50.1	The <i>assessment interval</i> is	By the 25 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	30 days from the date of submission of the invoice	
51.4	The <i>interest rate</i> is	<p>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 and</p> <p>(ii) the LIBOR rate applicable at the time for amounts due in other currencies. LIBOR is the 6 month London Interbank Offered Rate quoted under the caption "Money Rates" in The Wall Street Journal for the applicable currency or if no rate is quoted for the currency in question then the rate for United States Dollars, and if no such rate appears in The Wall Street Journal then the rate as quoted by the Reuters Monitor Money Rates Service (or such service as may replace the Reuters Monitor Money Rates Service) on the due date for the payment in question, adjusted <i>mutatis mutandis</i> every 6 months thereafter and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.</p>	

6	Compensation events	
60.1(13)	<p>The place where weather is to be recorded is:</p> <p>The <i>weather measurements</i> to be recorded for each calendar month are,</p> <p>The <i>weather measurements</i> are supplied by</p> <p>The <i>weather data</i> are the records of past <i>weather measurements</i> for each calendar month which were recorded at:</p> <p>and which are available from:</p>	<p>Matla Power Station main security area</p> <p>the cumulative rainfall (mm)</p> <p>the number of days with rainfall more than 10 mm</p> <p>the number of days with minimum air temperature less than 0 degrees Celsius</p> <p>the number of days with minimum air temperature more than 35 degrees Celsius</p> <p>the number of days with snow lying at 09:00 hours South African Time</p> <p>and these measurements:</p> <p>South African Weather Bureau</p> <p>Matla Power Station and surroundings</p> <p>the South African Weather Bureau and included in Annexure A to this Contract Data provided by the <i>Employer</i></p>
60.1(13)	Assumed values for the ten year return <i>weather data</i> for each <i>weather measurement</i> for each calendar month are:	As stated in Annexure A to this Contract Data provided by the <i>Employer</i>.

8	Risks and insurance	
80.1	These are additional <i>Employer's</i> risks	None
81	The Contractors risks	
81.1	From the starting date until the defect certificate has been issued, the risks which are not carried by the <i>Employer</i> are carried by the <i>Contractor</i>	
82	Repairs	
82.1	Until the defects Certificate has been issued and unless otherwise instructed by the <i>Project Manager</i> , the <i>Contractor</i> promptly replaces loss of and repairs damaged to the Works, Plant and Materials	
83	Indemnity	
83.1	Each Party indemnifies the other against claims, proceedings, compensation, and costs due to an event which is at his risk.	

83.2	The liability of each Party to indemnify the other is reduced if events at the other Party's risk contributed to the claims, proceedings, compensation and costs. The reduction is in proportion to the extent that the event which were at the other Party's risk contributed, taking into account each Party's responsibilities under this contract.	
84	Insurance Cover	
84.1	The <i>Employer</i> provides these insurances from the Insurance Table	Information available on the link below http://www.eskom.co.za/live/content.php?Item_ID=9248 (See Annexure C for basic guidance)
9	Termination	Termination of the contract is subject to clause 90 of NEC3 Engineering Construction Contract
10	Data for main Option clause	
A	Priced contract with activity schedule	As defined in clause 11 of NEC3 Engineering Construction Contract.
60.6	The <i>method of measurement</i> is	As stated in Part C2.1, Pricing Assumptions.
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	Johannesburg South Africa
	The person or organisation who will choose an arbitrator	
	- if the Parties cannot agree a choice or	the Chairman for the time being or his nominee
	- if the arbitration procedure does not	of the Association of Arbitrators (Southern
	- state who selects an arbitrator, is	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.
X7	Delay damages	
X7.1	Delay damages for Completion of the whole of the <i>works</i> are	1% of total order value, of the delay per week up to the maximum of 2.5% of the order
X16	Retention	
X16.1	The <i>retention free amount</i> is	Nil
	The <i>retention percentage</i> is	5% of every payment made, 50% will be paid after the completion of the project and the remaining 50% will be paid after 52 weeks
X18.1	The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to:	R0.0 (zero Rand)
X18.2	For any one event, the <i>Contractor's</i> liability to the <i>Employer</i> for loss of or damage to the <i>Employer's</i> property is limited to:	The amount of the deductibles relevant to the event
X18.3	The <i>Contractor's</i> liability for Defects due to his design which are not listed on the Defects Certificate is limited to	The greater of the total of the Prices at the Contract Date and the amounts excluded and unrecoverable from the <i>Employer's</i> assets policy for correcting the Defect (other than the resulting physical damage which is not excluded) plus the applicable deductible as at contract date.
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:	<p>the total of the Prices other than for the additional excluded matters.</p> <p>The <i>Contractor's</i> total liability for the additional excluded matters is not limited.</p> <p>The additional excluded matters are amounts for which the <i>Contractor</i> is liable under this 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</i>, Plant and Materials), • 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>One 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</p>

Z4 Confidentiality

- Z4.1 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 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.
- Z4.2 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*.
- Z4.3 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.
- Z4.4 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*.
- Z4.5 The *Contractor* ensures that all his subcontractors abide by the undertakings in this clause.

Z5 Waiver and estoppel: Add to core clause 12.3:

- Z5.1 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.

Z6 Health, safety and the environment: Add to core clause 27.4

- Z6.1 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.
- Z6.2
- 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.

Z7 Provision of a Tax Invoice and interest. Add to core clause 51

- Z7.1 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.
- Z7.2 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.
- Z7.3 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.

Z8 Notifying compensation events

- Z8.1 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".

Z9 Employer's limitation of liability

- Z9.1 The *Employer's* liability to the *Contractor* for the *Contractor's* indirect or consequential loss is limited to R0.00 (zero Rand)
- Z9.2 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.

Z10 Termination: Add to core clause 91.1, at the second main bullet point, fourth sub-bullet point, after the words "against it":

- Z10.1 or had a business rescue order granted against it.

Z11 Addition to secondary Option X7 Delay damages (if applicable in this contract)

- Z11.1 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.

Z12 Ethics

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

- Affected Party** means, as the context requires, any party, irrespective of whether it is the *Contractor* or a third party, such party's employees, agents, or Subcontractors or Subcontractor's employees, or any one or more of all of these parties' relatives or friends,
- Coercive Action** means to harm or threaten to harm, directly or indirectly, an Affected Party or the property of an Affected Party, or to otherwise influence or attempt to influence an Affected Party to act unlawfully or illegally,
- Collusive Action** means where two or more parties co-operate to achieve an unlawful or illegal purpose, including to influence an Affected Party to act unlawfully or illegally,
- Committing Party** means, as the context requires, the *Contractor*, or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractor or the Subcontractor's employees,
- Corrupt Action** means the offering, giving, taking, or soliciting, directly or indirectly, of a good or service to unlawfully or illegally influence the actions of an Affected Party,

- Fraudulent Action** means any unlawfully or illegally intentional act or omission that misleads, or attempts to mislead, an Affected Party, in order to obtain a financial or other benefit or to avoid an obligation or incurring an obligation,
- Obstructive Action** means a Committing Party unlawfully or illegally destroying, falsifying, altering or concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and
- Prohibited Action** means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.

- Z12.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.
- Z12.2 The *Employer* may terminate the *Contractor's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Contractor* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the *Employer* has. It is not required that the Committing Party had to have been found guilty, in court or in any other similar process, of such Prohibited Action before the *Employer* can terminate the *Contractor's* obligation to Provide the Services for this reason.
- Z12.3 If the *Employer* terminates the *Contractor's* obligation to Provide the Services for this reason, the amounts due on termination are those intended in core clauses 92.1 and 92.2.
- Z12.4 A Committing Party co-operates fully with any investigation pursuant to alleged Prohibited Action. Where the *Employer* does not have a contractual bond with the Committing Party, the *Contractor* ensures that the Committing Party co-operates fully with an investigation.

Z13 Insurance

Z 13.1 Replace core clause 84 with the following:

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 <i>works</i> , Plant and Materials	The replacement cost where not covered by the <i>Employer's</i> insurance The <i>Employer's</i> policy deductible, as Contract Date, where covered 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 <i>works</i> , 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	<p><u>Loss of or damage to property</u></p> <p><u>Employer's property</u> The replacement cost where not covered by the <i>Employer's</i> insurance</p> <p>The <i>Employer's</i> policy deductible, as at Contract Date, where covered by the <i>Employer's</i> insurance</p> <p><u>Other property</u> The replacement cost</p> <p><u>Bodily injury to or death of a person</u> The amount required by applicable law</p>
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 Plant	Per the insurance policy document
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.
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.
- Z15.7 Any removal and disposal of asbestos, asbestos containing materials and waste, is done by a registered asbestos *contractor*, instructed by the *Employer* at the *Employer's* expense, and conducted in line with South African legislation.

Annexure A: One-in-ten-year-return weather data obtained from SA Weather Bureau for [weather station]

If any one of these *weather measurements* recorded within a calendar month, before the Completion Date for the whole of the *works* and at the place stated in this Contract Data is shown to be more adverse than the amount stated below then the *Contractor* may notify a compensation event.

General

The Matla Power Station is situated approximately half way between Bethal and Ogies on the R545, being just over 30 km from each town and 13 km north-west of Kriel town.

Climate

Matla Power Station is situated in a summer rainfall area with an average annual precipitation of about 750-mm falling almost entirely during the months of October to April. The average rainfall per month generally exceeds 40 mm during this period, although drought periods do occur which can last for 20 days or longer. Drought periods occur most frequently during the months of October/November and March/April. January is statistically the highest rainfall month with an average monthly rainfall of about 130-mm. June has the lowest rainfall with an average monthly rainfall of about 7 mm.

Approximately 85% of the annual rainfall occurs in the summer months and heavy falls of 125 to 150 mm occasionally occur in a single day. The annual average number of thunderstorms is about 75. These storms are often violent with severe lightning and strong (but short-lived) gusty winds and are sometimes accompanied by hail. This region has among the highest hail frequencies in South Africa; about 4 to 7 occurrences (depending mainly on altitude) may be expected annually.

January is normally the hottest month with an average daily maximum temperature of 27°C with a mean daily temperature in winter being about 16°C. Winter average daily temperatures vary from 18, 5°C maximum to -1°C minimum. The extreme temperatures recorded range from 34, 7°C to minus 12, 4°C for the period 1920 - 1984. (Source: Weather Bureau, Pretoria)

Winds are generally light to moderate except during thunderstorms. Generally the prevailing wind directions are from the North West during the day and from the east at night. During daytime, the prevailing winds are from the north-western direction. During night-time, the prevailing winds are from the north-eastern direction. The highest recorded average wind speed is 17, 6 km/hour. The average wind velocity over the year is 14, 5 km/hour.

(Source: MSN weather & Weather 24, average records 2008 - 2009.)

Weather Data4

THE ASSUMED 1 IN 10 YEAR RAINFALL FIGURES ARE:

Month	Cumulative rain (mm)	No of days with rainfall > 10mm
January	200	6
February	150	6
March	120	5
April	110	4
May	40	3
June	20	2
July	30	2
August	30	2
September	60	3
October	140	6
November	160	7
December	170	6

Relative Humidity

Records for Bethal (2008 - 2009)

The average relative humidity on an annual base are as follows:

08:00 = 80%

14:00 = 52%

20:00 = 73%

Prevailing Winds

Records for Bethal (2008 - 2009)

Winds are mostly north-westerly except for February and March when they are easterly to south-easterly.

The highest wind speeds are recorded from the south-east: on average 14km/h.

Other Climatic Factors

Records for Bethal (2008 - 2009)

Thunder occurs mostly from November to January with average of 35.7 days annually.

- a) Hail occurs mostly in December with average of 2.8 days annually.
- b) Fog occurs mostly in the winter months with an average of 19 days annually.
- c) Snow rarely occurs
- d) Cloud coverage is highest in the summer months with annual average as follows:
 - 08:00 = 2.8/8
 - 14:00 = 3.8/8
 - 20:00 = 3.1/8

Evaporation for the area is in range of 75mm to 190mm per month. The highest evaporation occurs in December, and the lowest in June.

Topography

The surface topography of the Matla area is typical of the Mpumalanga Highveld consisting in the main of a gently undulating plateau. The flood plains of the local streams are at an average elevation of ± 1540 meters above mean sea level and drainage generally is a northerly direction.

Air Quality

The existing and potential sources of air pollution in Matla area are the following:

- Matla Power Station stack emissions
- Matla Power Station dry dust (fly ash) handling plant
- Dust blow from the Eskom coal stock yard
- Dust blow from the roads in the area
- Seasonal dust blow caused by ploughing of farmlands, and dust blow off denuded fields
- Dust blow from dried out exposed surfaces of the wet ash dam.

However, Eskom utilises the majority of the top surface of the ash dam as an evaporation pan for polluted water, which means that the exposed surface is constantly wet. The sides of the ash dam have largely been rehabilitated, with the result that dust blow from the ash dam.

Only the difference between the more adverse recorded weather and the equivalent measurement given above is taken into account in assessing a compensation event.

C1.2 Contract Data

Part two - Data provided by the Contractor

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)² 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
3. Where a form field like this appears, data is required to be inserted relevant to the option selected. Click on the form field **once** and type in the data. Otherwise complete by hand and in ink.

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

	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:	

² Available from Engineering Contract Strategies Tel 011 803 3008, Fax 011 803 3009 or see www.ecs.co.za

	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	
A	Priced contract with activity schedule	
11.2(20)	The <i>activity schedule</i> is in	
11.2(30)	The tendered total of the Prices is	
		(in words), excluding VAT
	Data for Schedules of Cost Components	<i>Note "SCC" means Schedule of Cost Components starting on page 60, and "SSCC" means Shorter Schedule of Cost Components starting on page 63 of ECC3 (April 2013).</i>
A	Priced contract with activity schedule	Data for the Shorter Schedule of Cost Components

C1.3 Forms of Securities

Pro formas for Bonds & Guarantees

For use with the NEC3 Engineering & Construction Contract

The *conditions of contract* stated in the Contract Data Part 1 include the following Secondary Options:

Option X16: Retention

The *Contractor* may provide a Retention Money Guarantee in the form stated here. When the *Employer* receives and accepts a Retention Money Guarantee exactly in the form stated he will instruct the *Project Manager* not to assess any amount be retained in terms of secondary Option X16.

The *Contractor* shall guarantee his SDL&I Obligations by providing the *Employer* with an SDL&I Guarantee in the form provided here.

The organisation providing the bond / guarantee does so by copying the pro forma document onto his letterhead without any change t the text or format and completing the required details. The completed document is then given to the *Employer* within the time stated in the contract.

PART 2: PRICING DATA

ECC3 Option A

Document reference	Title	No of pages
C2.1	Pricing assumptions: Option A	
C2.2	The <i>activity schedule</i>	

C2.1 Pricing assumptions: Option A

1. How work is priced and assessed for payment

Clause 11 in NEC3 Engineering and Construction Contract, (ECC3) Option A states:

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	11.2	(20) The Activity Schedule is the <i>activity schedule</i> unless later changed in accordance with this contract.
		(27) The Price for Work Done to Date is the total of the Prices for
		<ul style="list-style-type: none">• each group of completed activities and• each completed activity which is not in a group.
		A completed activity is one which is without Defects which would either delay or be covered by immediately following work.
		(30) The Prices are the lump sum prices for each of the activities on the Activity Schedule unless later changed in accordance with this contract.

This confirms that Option A is a lump sum form of contract where the work is broken down into activities, each of which is priced by the tendering contractor as a lump sum. Only completed activities are assessed for payment at each assessment date; no part payment is made if the activity is not completed by the assessment date.

2. Function of the Activity Schedule

Clause 54.1 in Option A states: "Information in the Activity Schedule is not Works Information or Site Information". This confirms that specifications and descriptions of the work or any constraints on how it is to be done are not included in the Activity Schedule 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 Activity Schedule. The Activity Schedule is only a pricing document.

3. Link to the programme

Clause 31.4 states that "The *Contractor* provides information which shows how each activity on the Activity Schedule relates to the operations on each programme which he submits for acceptance". Ideally the tendering *contractor* will develop a high level programme first then resource each activity and thus arrive at the lump sum price for that activity both of which can be entered into the *activity schedule*.

4. Preparing the *activity schedule*

Generally it is the tendering *Contractor* who prepares the *activity schedule* by breaking down the work described within the Works Information into suitable activities which can be well defined, shown on a programme and priced as a lump sum.

The *Employer*, in his Instructions to Tenderers or in a Tender Schedule, may have listed some items that he requires the *Contractor* to include in his *activity schedule* and be priced accordingly.

It is assumed that in preparing his *activity schedule* the *Contractor*:

- Has taken account of the guidance given in the ECC3 Guidance Notes pages 19 and 20;
- Understands the function of the Activity Schedule and how work is priced and paid for;
- Is aware of the need to link the Activity Schedule to activities shown on his programme;
- Has listed and priced activities in the *activity schedule* which are inclusive of everything necessary and incidental to Providing the Works in accordance with the Works Information, as it was at the time of tender, as well as correct any Defects not caused by an *Employer's* risk;
- Has priced work he decides not to show as a separate activity within the Prices of other listed activities in order to fulfil the obligation to complete the *works* for the tendered total of the Prices.
- Understands there is no adjustment to the lump sum Activity Schedule price if the amount, or quantity, of work within that activity later turns out to be different to that which the *Contractor* estimated at time of tender. The only basis for a change to the Prices is as a result of a compensation event.

An activity schedule could have the following format:

Refer to the attached QS report

Item No.	Programme Reference	Activity description	Price

C2.2 the *activity schedule*

The Price List is as follows:

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

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1 Description of the works

1.1 Executive overview

This scope outlines the refurbishment and renovation requirements for the kitchens and restrooms across the station to restore them to their original good condition. The primary objective is to ensure safety, health, and functionality are reinstated in each area. These renovations will address any structural, sanitary, and safety concerns to bring the facilities up to current standards and improve their operational efficiency.

The purpose of the refurbishment and renovation is to:

- Restore the kitchens and restrooms to their original, safe, and fully operational condition.
- Address any wear and tear or damage caused over time, ensuring the facilities meet health and safety standards.
- Enhance the user experience by improving functionality, hygiene, and overall aesthetics.
- Ensure compliance with current building regulations and safety codes.

1.2 *Employer's objectives and purpose of the works*

The station Ablution facility have reached their design life and require intense repairs and refurbishment. These areas pose a safety risk (falling ceiling boards etc.) and lack of hygienic compliance (taps not working etc). This contract is intended to refurbish and repair building facilities

1.3 Scope of the Works

NB: Do not tamper with the template.

GENERAL

- Data books, reviews, reports, and diagrams/drawings shall be submitted to Engineering after the completion of the work. Engineering to forward the data books to Quality Department (Document Control)
- All QCP's to be submitted to Engineering and Quality for approval prior to outage/project or maintenance work commencement.

	SCOPE OF WORK / DESCRIPTION ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1.1	Occupational Health and Safety	<ul style="list-style-type: none"> • Health and safety file should be approved by Safety risk management department prior to any work commences on site • All work is to be done in accordance with OHS Act 85 of 1993, Matla plant procedures and Plant Safety Regulations. (240-150642762). • Matla power station SHEQ induction must be done before access to site can be granted • The contractor should ensure that all employees have acquired the required competency for the task they are performing. • The contractor to ensure compliance to updated legal requirements and other requirements. • BUY QUIET: All stakeholders are encouraged to purchase or rent quieter machinery, equipment, and tools to reduce worker noise exposure, contribute towards compliance to OHSA noise exposure limits and ultimately reduce the risk of noise induced hearing loss. 	Eskom to witness.	Contractor
1.2	Environmental Management.	<ul style="list-style-type: none"> • All activities listed in the National Environmental Act 107 of 1998, EIA Regulations as amended, must have environmental AUTHORISATION before commencement of work. • The contractor shall comply with all applicable legal and other requirements. • The polluter pays principle will be applied. • The contractor manager shall ensure compliance with Eskom Matla Environmental procedures to ensure the prevention of pollution (refer: OMOP 4090 and 4402). 	Eskom to witness.	Contractor

		<ul style="list-style-type: none"> The last payment will be processed based on the status of the last housekeeping check sheet (Annexure C: OMOP 4402) of designated area. EMS file based on ISO14001 will be required. 		
1.3	Quality Management	<ul style="list-style-type: none"> The contractor/executioner of work will be responsible for drawing up all QCP documentation and this must be approved by engineering and authorised by the Quality Department before commencing with the work. Contractors/executioner to adhere to QM 58 and OMOP4497 requirements Number of NCR issued can affect your next tendering process. The QCP shall be signed progressively by the Engineer/Supervisor, Eskom QC Inspector, Contractor QC Inspector and/or AIA. No procuring of outage items without the approval of scopes by quality All outage scopes creep and scopes addition should be approved by quality No contractor should be in the possession of scopes for execution without the scopes approved by quality The contractor is subjected to quality auditing at any point in time during execution of scope 	Hold point	Contractor
1.4	Inputs from other departments			
1.5	Commissioning reference			

2.	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
<p>This scope outlines the Refurbishment of the Building Facilities across the station to restore them to their original good condition. The primary objective is to ensure safety, health, and functionality are reinstated in each area. These refurbishment will address any structural, sanitary, and safety concerns to bring the facilities up to current standards and improve their operational efficiency.</p> <p>The purpose of the refurbishment is to:</p> <ul style="list-style-type: none"> Refurbish of the 7in 1and make it safe and functional Production boardroom in the Units to meets to be efficient and productive space for management’s meeting. Address aging of the control room from Unit 1 to 6. Restore the kitchens and restrooms to their original, safe, and fully operational condition. 				

- Address any wear and tear or damage caused over time, ensuring the facilities meet health and safety standards.
- Enhance the user experience by improving functionality, hygiene, and overall aesthetics.
- Ensure compliance with current building regulations and safety codes. **National Building Regulations and Building Standards Act (No. 103 of 1977).**

The details in this scope should be used as a guide for pricing. However some areas will be decided by the Client and the Contractor on the final product.
Note: Other areas will require re-routing, demolitions and partitions to cater for the staff compliment – ensure provision is considered (30% of the areas).

2.1	<p>Areas to be covered are indicated below and will be other detail on other facilities will be covered at section 2.3.</p> <p>High level on 7 in 1 refurbishment:</p> <ul style="list-style-type: none"> - Repairs on the ceiling, wooden flooring replacement, surface repairs on the walls. - Lighting that is compliant for control room. - Install new TV screens and remove old once (not the HMI screens). <p>High level on the control rooms 1&2; 3&4 and 5&6.</p> <ul style="list-style-type: none"> - Installation new tiles - Paint the walls - Remove old wooden walls and replace with new modern wood - Refurbishment the ceiling. <p>High Level on the Production Boardroom</p> <ul style="list-style-type: none"> - Installation of speakers on each chair. - Install two new screen and its connection for the presenter. - Installation of sound proof for the production boardroom at 16ml. <p>High level on Kitchen and Ablution facilities Refurbishment</p> <ul style="list-style-type: none"> • Surface Repairs and Maintenance: <ul style="list-style-type: none"> ○ Repair all damaged / worn-out countertops, cabinets, and shelving. ○ Refinish and repaint surfaces to restore aesthetic appearance and improve hygiene. 		Hold point	Contractor
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	<ul style="list-style-type: none"> ○ Replace old tiles flooring with a non-slip, durable surface tiles. (Colour – to comply with Eskom colours) ● Plumbing and Electrical Systems: <ul style="list-style-type: none"> ○ Replace and repair plumbing systems, including sinks, filters and hydro-boil to ensure proper functionality and no leaks. ○ Replace old or damaged pipes and fixtures that could pose a risk of contamination or water damage. ○ Upgrade electrical systems to support modern kitchen appliances, ensuring wiring is safe and up to code, with COC where major changes are done. ● Appliance Replacement and Upgrades: <ul style="list-style-type: none"> ○ Replace outdated or malfunctioning appliances, with energy-efficient models. ○ Ensure that all appliances are properly installed and function according to safety standards. ● Ventilation and Exhaust Systems: <ul style="list-style-type: none"> ○ Inspect and clean all ventilation systems, including exhaust fans and range hoods, to ensure they are operating effectively. 			
2.2	<p>Restroom Refurbishment and Renovation:</p> <ul style="list-style-type: none"> ● Sanitary Fixtures and Equipment: <ul style="list-style-type: none"> ○ Inspect and repair or replace sanitary fixtures such as basin and urinals to ensure functionality and eliminate any issues with water flow, flushing, or drainage. ○ Replace any broken or outdated faucets, showerheads, and other plumbing fixtures. ● Wall, Floor, and Ceiling Maintenance: <ul style="list-style-type: none"> ○ Refinish and repaint walls where necessary, ensuring that surfaces are smooth, clean, and resistant to water damage. 		Hold point	Contractor

	<ul style="list-style-type: none"> ○ Replace old and damaged tiles or flooring with non-slip, (600mm*600mm tiles with Eskom Colour) easy-to-clean materials to prevent accidents and improve hygiene. ○ Repair and/or replace ceiling tiles to ensure structural integrity and prevent mold or water damage. ● Hygiene and Sanitation: <ul style="list-style-type: none"> ○ Ensure soap dispensers, hand towel dryers holders, are functional and properly installed. ● Health and Safety Standards: <ul style="list-style-type: none"> ○ Ensure that the restrooms comply with local health and safety regulations, including proper sanitation and accessibility standards. 																													
2.3	<p>The contractor shall carry out renovation (Replace, Supply and Install) work within the designated areas, including but not limited to the following:</p> <p>1. MEDICAL CENTRE</p> <ul style="list-style-type: none"> - LADIES TOILET - MEN'S TOILET - DISABILITY TOILET - KITCHEN <p>-</p>	<table border="1"> <thead> <tr> <th colspan="2" data-bbox="1032 751 1516 783">MEDICAL CENTRE</th> <th data-bbox="1516 751 1686 783"></th> </tr> <tr> <th colspan="2" data-bbox="1032 783 1516 855">LADIES TOILET</th> <th data-bbox="1516 783 1686 855">QUANTIT Y</th> </tr> </thead> <tbody> <tr> <td data-bbox="1032 855 1516 927">Floor Tiles (demolish,supply,install)</td> <td data-bbox="1516 855 1686 927">24m2</td> </tr> <tr> <td data-bbox="1032 927 1516 959">Ceiling (demolish, supply, install)</td> <td data-bbox="1516 927 1686 959">24m2</td> </tr> <tr> <td data-bbox="1032 959 1516 991">Wall tiles (demolish, supply, install)</td> <td data-bbox="1516 959 1686 991">170m2</td> </tr> <tr> <td data-bbox="1032 991 1516 1023">Toilet</td> <td data-bbox="1516 991 1686 1023">2</td> </tr> <tr> <td data-bbox="1032 1023 1516 1054">Basin (replace with morden)</td> <td data-bbox="1516 1023 1686 1054">2</td> </tr> <tr> <td data-bbox="1032 1054 1516 1086">Tap mixer</td> <td data-bbox="1516 1054 1686 1086">2</td> </tr> <tr> <td data-bbox="1032 1086 1516 1118">Showerhead</td> <td data-bbox="1516 1086 1686 1118">1</td> </tr> <tr> <td data-bbox="1032 1118 1516 1190">Shower (demolishing, supply and install)</td> <td data-bbox="1516 1118 1686 1190">1</td> </tr> <tr> <td data-bbox="1032 1190 1516 1222">Installation(toilet, basin, tap mixer)</td> <td data-bbox="1516 1190 1686 1222">5</td> </tr> <tr> <td data-bbox="1032 1222 1516 1294">Frameless rectangular mirror 700x450x4mm</td> <td data-bbox="1516 1222 1686 1294">2</td> </tr> </tbody> </table>	MEDICAL CENTRE			LADIES TOILET		QUANTIT Y	Floor Tiles (demolish,supply,install)	24m2	Ceiling (demolish, supply, install)	24m2	Wall tiles (demolish, supply, install)	170m2	Toilet	2	Basin (replace with morden)	2	Tap mixer	2	Showerhead	1	Shower (demolishing, supply and install)	1	Installation(toilet, basin, tap mixer)	5	Frameless rectangular mirror 700x450x4mm	2	Hold point	Contractor
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Installation(toilet, basin, tap mixer)	5																													
Frameless rectangular mirror 700x450x4mm	2																													

MEN'S TOILET		QUANTIT Y
Floor tiles(demolish,supply,install)		25.44m2
Ceiling(demolish,supply,install)		25.44m2
Wall tiles(demolish,supply,install)		150m2
Toilet		4
Basin		3
Tap mixer		3
Showerhead		2
Shower (demolishing, supply and install)		2
Installation(toilet,basin,tap mixer)		7
Frameless rectangular mirror 700x450x4mm		3
DISABILITY TOILET		QUANTIT Y
Floor tiles(demolish,supply,install)		25.44m2
Ceiling(demolish,supply,install)		25.44m2
Wall tiles(demolish,supply,install)		90m2
Toilet		1
Basin		1
Tap mixer		1
Installation(toilet,basin,tap mixer)		2
Frameless rectangular mirror 700x450x4mm		1
KITCHEN		QUANTIT Y
remove current kitchen units		1
supreme white melamine		7
white masonite 2740x1830 3mm		2
melcanadian maple alp		5
canadian maple 1mm		141

		canadian maple 2mm	67		
		cutting full sheet	12		
		cutting masonite sheet	2		
		cutting charge hinge hole	46		
		hinge 110% + 4 hole baseplate	48		
		handle bar 288mm 12mm	28		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		woodfiller alcolone white 200g	2		
		canadian maple pvc	10		
		cover caps white adhesive	2		
		top granite rusternburg 3950 x 600 2150x600	1		
		delivery	1		
		installation	1		
		floor tiles(demolish,supply,install)	6.3m2		
		wall tiles(demolish,supply,install)	30m2		
		ceiling(demolish,supply,install)	6.2m2		
		delivery	2		
	2. UNIT 1	UNIT 1			
	- LADIES TOILETS	LADIES TOILETS	QUANTIT		
	- MEN'S TOILETS		Y		
		wall painting(supply&labour)	180m2		
		lockable doors(supply&install)	2		
		floor tiles(demolish,supply,install)	98m2		
		ceiling(demolish,supply,install)	98m2		
		wall tiles(demolish,supply,install)	225m2		
		toilet	1		
		basin	1		
		tap mixer	1		

		<table border="1"> <tbody> <tr> <td>installation(toilet,basin,tap mixer)</td> <td>2</td> </tr> <tr> <td>showerhead</td> <td>4</td> </tr> <tr> <td>shower (demolishing, supply and install)</td> <td>4</td> </tr> <tr> <td>frameless rectangular mirror 700x450x4mm</td> <td>4</td> </tr> <tr> <td colspan="2">MEN'S TOILETS</td> </tr> <tr> <td>wall painting(supply&labour)</td> <td>300m2</td> </tr> <tr> <td>lockable doors(supply&install)</td> <td>7</td> </tr> <tr> <td>floor tiles(demolish,supply,install)</td> <td>60m2</td> </tr> <tr> <td>ceiling(demolish,supply,install)</td> <td>60m2</td> </tr> <tr> <td>wall tiles(demolish,supply,install)</td> <td>165m2</td> </tr> <tr> <td>toilet</td> <td>2</td> </tr> <tr> <td>basin</td> <td>4</td> </tr> <tr> <td>tap mixer</td> <td>4</td> </tr> <tr> <td>urinary</td> <td>4</td> </tr> <tr> <td>Installation (toilet, basin, tap mixer)</td> <td>10</td> </tr> <tr> <td>showerhead</td> <td>4</td> </tr> <tr> <td>shower (demolishing, supply and install)</td> <td>4</td> </tr> <tr> <td>frameless rectangular mirror 700x450x4mm</td> <td>6</td> </tr> <tr> <td>delivery</td> <td>2</td> </tr> </tbody> </table>	installation(toilet,basin,tap mixer)	2	showerhead	4	shower (demolishing, supply and install)	4	frameless rectangular mirror 700x450x4mm	4	MEN'S TOILETS		wall painting(supply&labour)	300m2	lockable doors(supply&install)	7	floor tiles(demolish,supply,install)	60m2	ceiling(demolish,supply,install)	60m2	wall tiles(demolish,supply,install)	165m2	toilet	2	basin	4	tap mixer	4	urinary	4	Installation (toilet, basin, tap mixer)	10	showerhead	4	shower (demolishing, supply and install)	4	frameless rectangular mirror 700x450x4mm	6	delivery	2		
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		Ceiling (demolish, supply, install)	42m2		
		wall tiles (demolish, supply, install)	60m2		
		toilet	1		
		basin	1		
		tap mixer	1		
		installation(toilet,basin,tap mixer)	2		
		showerhead	4		
		shower (demolishing, supply and install)	4		
		frameless rectangular mirror 700x450x4mm	8		
		MEN'S TOILETS	QUANTIT Y		
		lockable doors (supply & install)	8		
		floor tiles (demolish, supply, install)	114m2		
		Ceiling (demolish, supply, install)	114m2		
		wall tiles (demolish, supply, install)	300m2		
		toilet	3		
		basin	2		
		tap mixer	2		
		urinary	2		
		Installation (toilet, basin, tap mixer)	7		
		showerhead	3		
		shower (demolishing, supply and install)	3		
		frameless rectangular mirror 700x 450x 4mm	4		
		KITCHEN	QUANTIT Y		
		remove current kitchen units	1		
		supreme white melamine	5		

		white masonite 2740x1830 3mm	2		
		melcanadian maple alp	4		
		canadian maple 1mm	99		
		canadian maple 2mm	44		
		cutting full sheet	9		
		cutting charge hinge hole	28		
		hinge 110% + 4 hole baseplate	30		
		handle bar 288mm 12mm	18		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		woodfiller alcolone white 200g	2		
		canadian maple pvc	10		
		cover caps white adhesive	1		
		top granite rustenburg 1650x600 2500	1		
		delivery	1		
		installation	1		
		floor tiles(demolish,supply,install)	42m2		
		ceiling(demolish,supply,install)	42m2		
		wall tiles(demolish,supply,install)	60m2		
		wall painting(supply&labour)	150m2		
		delivery	2		
	4. UNIT 2 CNI				
	- LADIES TOILETS				
	- MEN,S TOILETS (1)				
	- MEN,S TOILETS (2)				
	- SHOWERS				
		LADIES TOILETS	QUANTIT Y		
		wall painting(supply&labour)	360m2		
		lockable doors(supply&install)	3		
		floor tiles(demolish,supply,install)	70m2		
		ceiling(demolish,supply,install)	70m2		
		wall tiles(demolish,supply,install)	210m2		

		toilet	3		
		basin	4		
		tap mixer	4		
		installation(toilet,basin,tap mixer)	7		
		showerhead	2		
		shower (demolishing, supply and install)	2		
		frameless rectangular mirror 700x450x4mm	8		
		MEN,S TOILETS (1)	QUANTIT Y		
		wall painting (supply and labour)	34m2		
		floor tiles(demolish,supply,install)	6.72m2		
		ceiling(demolish,supply,install)	6.72m2		
		wall tiles(demolish,supply,install)	14m2		
		toilet	2		
		basin	5		
		tap mixer	5		
		urinary	5		
		installation(toilet,basin,tap mixer)	12		
		frameless rectangular mirror 700x450x4mm	10		
		MEN,S TOILETS (2)	QUANTIT Y		
		wall painting (supply and labour)	60m2		
		floor tiles(demolish,supply,install)	48m2		
		ceiling(demolish,supply,install)	48m2		
		wall tiles(demolish,supply,install)	90m2		
		fluorescent light	2		
		frameless rectangular mirror 700x450x4mm	4		

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	<p>6. OPS COMMISSIONING 22m LEVEL - KITCHEN</p>	<table border="1"> <thead> <tr> <th>KITCHEN</th> <th>QUALITY</th> </tr> </thead> <tbody> <tr> <td>remove current kitchen units</td> <td>1</td> </tr> <tr> <td>supreme white melamine</td> <td>4</td> </tr> <tr> <td>white masonite 2740x1830 3mm</td> <td>1</td> </tr> <tr> <td>melcanadian maple alp</td> <td>3</td> </tr> <tr> <td>canadian maple 1mm</td> <td>66</td> </tr> <tr> <td>canadian maple 2mm</td> <td>26</td> </tr> <tr> <td>cutting full sheet</td> <td>7</td> </tr> <tr> <td>cutting masonite sheet</td> <td>1</td> </tr> <tr> <td>cutting charge hinge hole</td> <td>16</td> </tr> <tr> <td>hinge 110% + 4 hole baseplate</td> <td>16</td> </tr> <tr> <td>handle bar 288mm 12mm</td> <td>12</td> </tr> <tr> <td>runner ball bearing 500mm</td> <td>4</td> </tr> <tr> <td>drop in sink double</td> <td>1</td> </tr> <tr> <td>nail brad f40</td> <td>1</td> </tr> <tr> <td>screw 8x30 sq 500</td> <td>1</td> </tr> <tr> <td>screw 6x16 sq 500</td> <td>1</td> </tr> </tbody> </table>	KITCHEN	QUALITY	remove current kitchen units	1	supreme white melamine	4	white masonite 2740x1830 3mm	1	melcanadian maple alp	3	canadian maple 1mm	66	canadian maple 2mm	26	cutting full sheet	7	cutting masonite sheet	1	cutting charge hinge hole	16	hinge 110% + 4 hole baseplate	16	handle bar 288mm 12mm	12	runner ball bearing 500mm	4	drop in sink double	1	nail brad f40	1	screw 8x30 sq 500	1	screw 6x16 sq 500	1		
KITCHEN	QUALITY																																					
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screw 8x30 sq 500	1																																					
screw 6x16 sq 500	1																																					

		silicone alcoline acrylic 260ml	2		
		canadian maple pvc	10		
		top granite rusternburg 1800x 600	1		
		delivery	1		
		installation	1		
		wall painting(supply&labour)	86.58m2		
		floor tiles(demolish,supply,install)	44.2m2		
		ceiling(demolish,supply,install)	44.2m2		
		wall tiles(demolish,supply,install)	19.5m2		
	7. OPS SUPPORT				
		OPS SUPPORT	QUANTIT Y		
		floor tiles(demolish,supply,install)	42.5m2		
		ceiling(demolish,supply,install)	42.5m2		
		lockable doors	3		
	8. EMD WORKSHOP				
	- LADIES TOILET				
	- MEN'S TOILET				
	- KITCHEN				
		LADIES TOILET	QUANTIT Y		
		floor tiles(demolish,supply,install)	110m2		
		ceiling(demolish,supply,install)	110m2		
		toilet	3		
		installation(toilet)	3		
		showerhead	3		
		shower (demolishing, supply and install)	3		
		frameless rectangular mirror 700x450x4mm	8		
		MEN'S TOILET	QUANTIT Y		

		floor tiles(demolish,supply,install)	29.6m2		
		ceiling(demolish,supply,install)	29.6m2		
		lockable door	1		
		showerhead	1		
		shower (demolishing, supply and install)	1		
		frameless rectangular mirror 700x450x4mm	3		
		KITCHEN	QUANTIT Y		
		remove current kitchen units	1		
		supreme white melamine	8		
		white masonite 2740x1830 3mm	3		
		melcanadian maple alp	8		
		canadian maple 1mm	76		
		canadian maple 2mm	44		
		cutting full sheet	15		
		cutting masonite sheet	1		
		cutting charge hinge hole	16		
		hinge 110% + 4 hole baseplate	16		
		handle bar 288mm 12mm	12		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	4		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		canadian maple pvc	16		
		top granite rusternburg 1800x 600	1		
		delivery	1		
		installation	1		
		floor tiles(demolish,supply,install)	10m2		
		ceiling(demolish,supply,install)	10m2		

		delivery	2		
9. FOB - LADIES TOILET - MEN'S TOILET - CHANGING ROOM MEN - LADIES SHOWER - CHANGING ROOM LADIES		LADIES TOILET		QUALITY	
		floor tiles(demolish, supply, install)		14m2	
		ceiling(demolish, supply, install)		14m2	
		wall tiles(demolish, supply, install)		45m2	
		toilet		1	
		basin		1	
		tap mixer		1	
		installation(toilet, basin, tap mixer)		2	
		frameless rectangular mirror 700x450x4mm		2	
		MEN'S TOILET		QUALITY	
		floor tiles(demolish, supply, install)		16m2	
		ceiling(demolish, supply, install)		16m2	
		wall tiles(demolish, supply, install)		32m2	
		lockable door		1	
		toilet		1	
		basin		1	
		tap mixer		1	
		urinary		1	
		installation(toilet, basin, tap mixer)		2	
		frameless rectangular mirror 700x450x4mm		2	
		CHANGING ROOM MEN		QUALITY	
		wall painting(demolish, supply, install)		140m2	
		floor tiles(demolish, supply, install)		61m2	
		ceiling(demolish, supply, install)		61m2	
		wall tiles(demolish, supply, install)		102m2	
		basin.		2	
		tap mixer		2	

		urinary	1		
		installation(toilet,basin,tap mixer)	3		
		showerhead	4		
		shower (demolishing, supply and install)	4		
		frameless rectangular mirror 700x450x4mm	4		
		LADIES SHOWER	QUALITY		
		wall painting(demolish,supply,install)	16.8m2		
		floor tiles(demolish,supply,install)	5m2		
		ceiling(demolish,supply,install)	5m2		
		wall tiles(demolish,supply,install)	28m2		
		showerhead	2		
		shower (demolishing, supply and install)	2		
		frameless rectangular mirror 700x450x4mm	4		
		CHANGING ROOM LADIES	QUALITY		
		wall painting(demolish,supply,install)	57.6m2		
		floor tiles(demolish,supply,install)	22.95m2		
		ceiling(demolish,supply,install)	22.95m2		
		frameless rectangular mirror 700x450x4mm	4		
		delivery	3		

10. RELIABILITY - KITCHEN - LADIES TOILET - MEN'S TOILET		
	KITCHEN	QUALITY
	remove current kitchen units	
	supreme white melamine	
	white masonite 2740x1830 3mm	
	melcanadian maple alp	
	canadian maple 1mm	
	canadian maple 2mm	
	cutting full sheet	
	cutting masonite sheet	
	cutting charge hinge hole	
	hinge 110% + 4 hole baseplate	
	handle bar 288mm 12mm	
	runner ball bearing 500mm	
	drop in sink double	
	nail brad f40	
	screw 8x30 sq 500	
	screw 6x16 sq 500	
	silicone alcoline acrylic 260ml	
	canadian maple pvc	
	top granite rusternburg 1800x 600	
	delivery	
	installation	
	wall	
	painting(demolish,supply,install)	
	floor tiles(demolish,supply,install)	
	ceiling(demolish,supply,install)	
	wall tiles(demolish,supply,install)	
	LADIES TOILET	QUALITY
wall painting(supply&labour)		
floor tiles(demolish,supply,install)		
ceiling(demolish,supply,install)		
wall tiles(demolish,supply,install)		

		toilet basin tap mixer installation(toilet,basin,tap mixer) frameless rectangular mirror 700x450x4mm																									
11. UNIT 5&6 - MEN'S TOILET - LADIES CHANGING ROOM - KITCHEN		<table border="1"> <thead> <tr> <th data-bbox="1032 890 1532 927">MEN'S TOILET</th> <th data-bbox="1532 890 1702 927">QUALITY</th> </tr> </thead> <tbody> <tr> <td data-bbox="1032 927 1532 963">wall painting (supply and labour)</td> <td data-bbox="1532 927 1702 963"></td> </tr> <tr> <td data-bbox="1032 963 1532 1000">floor tiles(demolish,supply,install)</td> <td data-bbox="1532 963 1702 1000"></td> </tr> <tr> <td data-bbox="1032 1000 1532 1037">ceiling(demolish,supply,install)</td> <td data-bbox="1532 1000 1702 1037"></td> </tr> <tr> <td data-bbox="1032 1037 1532 1074">wall tiles(demolish,supply,install)</td> <td data-bbox="1532 1037 1702 1074"></td> </tr> <tr> <td data-bbox="1032 1074 1532 1110">toilet</td> <td data-bbox="1532 1074 1702 1110"></td> </tr> <tr> <td data-bbox="1032 1110 1532 1147">basin</td> <td data-bbox="1532 1110 1702 1147"></td> </tr> <tr> <td data-bbox="1032 1147 1532 1184">tap mixer</td> <td data-bbox="1532 1147 1702 1184"></td> </tr> <tr> <td data-bbox="1032 1184 1532 1220">installation(toilet,basin,tap mixer)</td> <td data-bbox="1532 1184 1702 1220"></td> </tr> <tr> <td data-bbox="1032 1220 1532 1257">frameless rectangular mirror 700x450x4mm</td> <td data-bbox="1532 1220 1702 1257"></td> </tr> <tr> <td data-bbox="1032 1257 1532 1294">delivery</td> <td data-bbox="1532 1257 1702 1294"></td> </tr> </tbody> </table>	MEN'S TOILET	QUALITY	wall painting (supply and labour)		floor tiles(demolish,supply,install)		ceiling(demolish,supply,install)		wall tiles(demolish,supply,install)		toilet		basin		tap mixer		installation(toilet,basin,tap mixer)		frameless rectangular mirror 700x450x4mm		delivery				
MEN'S TOILET	QUALITY																										
wall painting (supply and labour)																											
floor tiles(demolish,supply,install)																											
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wall tiles(demolish,supply,install)																											
toilet																											
basin																											
tap mixer																											
installation(toilet,basin,tap mixer)																											
frameless rectangular mirror 700x450x4mm																											
delivery																											

LADIES CHANGING ROOM		QUALITY
wall		
painting(demolish,supply,install)		
floor tiles(demolish,supply,install)		
ceiling(demolish,supply,install)		
wall tiles(demolish,supply,install)		
frameless rectangular mirror 700x450x4mm		
KITCHEN		QUALITY
remove current kitchen units		
supreme white melamine		
white masonite 2740x1830 3mm		
melcanadian maple alp		
canadian maple 1mm		
canadian maple 2mm		
cutting full sheet		
cutting masonite sheet		
cutting charge hinge hole		
hinge 110% + 4 hole baseplate		
handle bar 288mm 12mm		
ruuner ball bearing 500mm		
drop in sink double		
nail brad f40		
screw 8x30 sq 500		
screw 6x16 sq 500		
silicone alcoline acrylic 260ml		
canadian maple pvc		
top granite rusternburg 1800x 600		
delivery		
installation		

		floor tiles(demolish, supply, install)			
		ceiling(demolish, supply, install)			
		wall tiles(demolish, supply, install)			
		delivery			
	12. MMD WORKSHOP - LADIES TOILET - MEN'S TOILET - KITCHEN	LADIES TOILET			
		wall painting(supply&labour)	53.05m2		
		floor tiles(demolish, supply, install)	31.5m2		
		ceiling(demolish, supply, install)	31.5m2		
		toilet	2		
		basin	2		
		tap mixer	2		
		installation(toilet, basin, tap mixer)	4		
		showerhead	2		
		shower (demolishing, supply and install)	2		
		frameless rectangular mirror 700x450x4mm	8		
		MEN'S TOILET			
		wall painting(supply&labour)	54.84m2		
		floor tiles(demolish, supply, install)	41.5m2		
		ceiling(demolish, supply, install)	41.5m2		
		wall tiles(demolish, supply, install)	156.1m2		
		mosaic	6		
		toilet	4		
		basin	4		
		tap mixer	4		
		installation(toilet, basin, tap mixer)	8		
		showerhead	6		

		shower (demolishing, supply and install)	6		
		frameless rectangular mirror 700x450x4mm	14		
		KITCHEN	QUALITY		
		remove current kitchen units	1		
		supreme white melamine	4		
		white masonite 2740x1830 3mm	90		
		melcanadian maple alp	40		
		canadian maple 1mm	8		
		canadian maple 2mm	2		
		cutting full sheet	28		
		cutting masonite sheet	30		
		cutting charge hinge hole	18		
		hinge 110% + 4 hole baseplate	4		
		handle bar 288mm 12mm	1		
		ruuner ball bearing 500mm	1		
		drop in sink double	2		
		nail brad f40	10		
		silicone alcoline acrylic 260ml	1		
		canadian maple pvc	1		
		top granite rusternburg 3400 x 600	1		
		delivery	1		
		instalation	1		
		wall painting(demolish,supply,install)	66.7m2		
		delivery	2		
	13. WELDING SHOP - MEN'S TOILET	MEN'S TOILET	QUANTIT Y		

<p>14. WELDING SHOP ADMIN BUILDING</p> <ul style="list-style-type: none"> - MEN'S TOILET - LADIES TOILET - MEN'S TOILET <p>15. WELDING SHOP</p> <ul style="list-style-type: none"> - KITCHEN 	wall painting(supply&labour)	90.16m2			
	floor tiles(demolish,supply,install)	55.5m2			
	ceiling(demolish,supply,install)	55.5m2			
	wall tiles(demolish,supply,install)	61.44m2			
	toilet	2			
	basin	2			
	tap mixer	2			
	urinary	2			
	installation(toilet,basin,tap mixer)	6			
	showerhead	2			
	shower (demolishing, supply and install)	2			
	frameless rectangular mirror 700x450x4mm	8			
	delivery	1			
	MEN'S TOILET				
	floor tiles(demolish,supply,install)	19.84m2			
	ceiling(demolish,supply,install)	19.84m2			
	wall tiles(demolish,supply,install)	45m2			
	toilet	1			
	basin	2			
	tap mixer	2			
	urinary	3			
	installation(toilet,basin,tap mixer)	6			
	frameless rectangular mirror 700x450x4mm	5			
	ladies toilet				
	wall painting(supply&labour)	80m2			
	floor tiles(demolish,supply,install)	49m2			

		ceiling(demolish, supply, install)	49m2		
		wall tiles(demolish, supply, install)	120m2		
		toilet	3		
		round basin	1		
		cabinet with top granite	1		
		tap mixer	1		
		installation(toilet, basin, tap mixer)	4		
		showerhead	2		
		shower (demolishing, supply and install)	2		
		frameless rectangular mirror 700x450x4mm	4		
		men's toilet			
		wall painting(supply&labour)	30m2		
		floor tiles(demolish, supply, install)	12m2		
		ceiling(demolish, supply, install)	12m2		
		wall tiles(demolish, supply, install)	30m2		
		replacement of window glass 6mx6m	1		
		frameless rectangular mirror 700x450x4mm	9		
		delivery	2		
		KITCHEN			
		remove current units	1		
		supreme white melamine	4		
		white masonite 2740x1830 3mm	1		
		melcanadian maple alp	3		
		canadian maple 1mm	66		
		canadian maple 2mm	26		
		cutting full sheet	7		

		cutting masonite sheet	1		
		cutting charge hinge hole	16		
		hinge 110% + 4 hole baseplate	16		
		handle bar 288mm 12mm	12		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	4		
		canadian maple pvc	10		
		top granite rusternburg 1800x 600	1		
		delivery	1		
		installation	1		
		floor tiles(demolish,supply,install)	5.94m2		
		ceiling(demolish,supply,install)	5.94m2		
		wall tiles(demolish,supply,install)	60m2		
		delivery	1		
	16. MMD				
	- LADIES TOILET				
	- MENS TOILET				
		LADIES TOILET	QUANTIT Y		
		floor tiles(demolish,supply,install)	22.48m2		
		ceiling(demolish,supply,install)	22.48m2		
		wall tiles(demolish,supply,install)	30.4m2		
		toilet	2		
		round basin	2		
		tap mixer	2		
		installation(toilet,basin,tap mixer)	4		
		showerhead	4		

		<table border="1"> <tr> <td>shower (demolishing, supply and install)</td> <td>4</td> </tr> <tr> <td>frameless rectangular mirror 700x450x4mm</td> <td>10</td> </tr> <tr> <td>delivery</td> <td>1</td> </tr> </table>	shower (demolishing, supply and install)	4	frameless rectangular mirror 700x450x4mm	10	delivery	1																																		
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	<p>17. OPS TRAINING</p> <ul style="list-style-type: none"> - MEN'S TOILET - LADIES TOILET - KITCHEN 	<table border="1"> <tr> <td>men's toilet</td> <td></td> </tr> <tr> <td>wall painting(supply&labour)</td> <td>46m2</td> </tr> <tr> <td>floor tiles(demolish,supply,install)</td> <td>56.5m2</td> </tr> <tr> <td>ceiling(demolish,supply,install)</td> <td>56.5m2</td> </tr> <tr> <td>wall tiles(demolish,supply,install)</td> <td>74.3m2</td> </tr> <tr> <td>toilet</td> <td>4</td> </tr> <tr> <td>basin</td> <td>6</td> </tr> <tr> <td>tap mixer</td> <td>6</td> </tr> <tr> <td>frameless rectangular mirror 700x450x4mm</td> <td>12</td> </tr> <tr> <td>installation(toilet,basin,tap mixer)</td> <td>10</td> </tr> </table> <table border="1"> <tr> <td>LADIES TOILET</td> <td></td> </tr> <tr> <td>wall painting(supply&labour)</td> <td>144m2</td> </tr> <tr> <td>floor tiles(demolish,supply,install)</td> <td>65.18m2</td> </tr> <tr> <td>ceiling(demolish,supply,install)</td> <td>65.18m2</td> </tr> <tr> <td>wall tiles(demolish,supply,install)</td> <td>77m2</td> </tr> <tr> <td>mosaic</td> <td>2</td> </tr> <tr> <td>toilet</td> <td>2</td> </tr> <tr> <td>basin</td> <td>3</td> </tr> <tr> <td>tap mixer</td> <td>3</td> </tr> </table>	men's toilet		wall painting(supply&labour)	46m2	floor tiles(demolish,supply,install)	56.5m2	ceiling(demolish,supply,install)	56.5m2	wall tiles(demolish,supply,install)	74.3m2	toilet	4	basin	6	tap mixer	6	frameless rectangular mirror 700x450x4mm	12	installation(toilet,basin,tap mixer)	10	LADIES TOILET		wall painting(supply&labour)	144m2	floor tiles(demolish,supply,install)	65.18m2	ceiling(demolish,supply,install)	65.18m2	wall tiles(demolish,supply,install)	77m2	mosaic	2	toilet	2	basin	3	tap mixer	3		
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basin	3																																									
tap mixer	3																																									

		installation(toilet,basin,tap mixer)	5		
		showerhead	2		
		shower (demolishing, supply and install)	2		
		frameless rectangular mirror 700x450x4mm	4		
		kitchen			
		remove +b393:f417current kitchen units	1		
		supreme white melamine	4		
		white masonite 2740x1830 3mm	1		
		melcanadian maple alp	3		
		canadian maple 1mm	66		
		canadian maple 2mm	26		
		cutting full sheet	7		
		cutting masonite sheet	1		
		cutting charge hinge hole	16		
		hinge 110% + 4 hole baseplate	16		
		handle bar 288mm 12mm	12		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		canadian maple pvc	10		
		top granite rusternburg 1800x 600	1		
		delivery	1		
		installation	1		
		delivery	2		

18. PRODUCTION OFFICES (Coal Management Offices) - KITCHEN - LADIES - MEN'S TOILET	Kitchen (partitioning)		
	remove current kitchen units	1	
	supreme white melamine	1	
	white masonite 2740x1830 3mm	1	
	melcanadian maple alp	1	
	canadian maple 1mm	66	
	canadian maple 2mm	26	
	cutting full sheet	7	
	cutting masonite sheet	1	
	cutting charge hinge hole	16	
	hinge 110% + 4 hole baseplate	16	
	handle bar 288mm 12mm	12	
	ruuner ball bearing 500mm	4	
	drop in sink double	1	
	nail brad f40	1	
	screw 8x30 sq 500	1	
	screw 6x16 sq 500	1	
	silicone alcoline acrylic 260ml	2	
	canadian maple pvc	10	
	top granite rusternburg 60x 60	1	
	delivery	1	
	installation	1	
	wall painting(demolish,supply,install)	30m2	
	floor tiles(demolish,supply,install)	9m2	
	ceiling(demolish,supply,install)	9m2	
wall tiles(demolish,supply,install)	3.5m2		

		<table border="1"> <tr> <td>Ladies (additional toilets for ladies) and men's toilet (Additional urinary) Modifications.</td> <td></td> </tr> <tr> <td>wall painting(supply&labour)</td> <td>40m2</td> </tr> <tr> <td>floor tiles(demolish,supply,install)</td> <td>14.35m2</td> </tr> <tr> <td>ceiling(demolish,supply,install)</td> <td>14.35m2</td> </tr> <tr> <td>wall tiles(demolish,supply,install)</td> <td>14.52m2</td> </tr> <tr> <td>frameless rectangular mirror 700x450x4mm</td> <td>8</td> </tr> <tr> <td>Shower</td> <td></td> </tr> </table>	Ladies (additional toilets for ladies) and men's toilet (Additional urinary) Modifications.		wall painting(supply&labour)	40m2	floor tiles(demolish,supply,install)	14.35m2	ceiling(demolish,supply,install)	14.35m2	wall tiles(demolish,supply,install)	14.52m2	frameless rectangular mirror 700x450x4mm	8	Shower																										
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	<p>19. CIVIL MAINTENANCE</p> <ul style="list-style-type: none"> - KITCHEN - LADIES TOILET - MEN'S TOILET 	<table border="1"> <thead> <tr> <th>KITCHEN</th> <th>QUALITY</th> </tr> </thead> <tbody> <tr> <td>remove current units</td> <td>1</td> </tr> <tr> <td>supreme white melamine</td> <td>7</td> </tr> <tr> <td>white masonite 2740x1830 3mm</td> <td>2</td> </tr> <tr> <td>melcanadian maple alp</td> <td>5</td> </tr> <tr> <td>canadian maple 1mm</td> <td>141</td> </tr> <tr> <td>canadian maple 2mm</td> <td>67</td> </tr> <tr> <td>cutting full sheet</td> <td>12</td> </tr> <tr> <td>cutting masonite sheet</td> <td>2</td> </tr> <tr> <td>cutting charge hinge hole</td> <td>46</td> </tr> <tr> <td>hinge 110% + 4 hole baseplate</td> <td>48</td> </tr> <tr> <td>handle bar 288mm 12mm</td> <td>28</td> </tr> <tr> <td>ruuner ball bearing 500mm</td> <td>4</td> </tr> <tr> <td>drop in sink double</td> <td>1</td> </tr> <tr> <td>nail brad f40</td> <td>1</td> </tr> <tr> <td>screw 8x30 sq 500</td> <td>1</td> </tr> <tr> <td>screw 6x16 sq 500</td> <td>1</td> </tr> <tr> <td>silicone alcoline acrylic 260ml</td> <td>2</td> </tr> </tbody> </table>	KITCHEN	QUALITY	remove current units	1	supreme white melamine	7	white masonite 2740x1830 3mm	2	melcanadian maple alp	5	canadian maple 1mm	141	canadian maple 2mm	67	cutting full sheet	12	cutting masonite sheet	2	cutting charge hinge hole	46	hinge 110% + 4 hole baseplate	48	handle bar 288mm 12mm	28	ruuner ball bearing 500mm	4	drop in sink double	1	nail brad f40	1	screw 8x30 sq 500	1	screw 6x16 sq 500	1	silicone alcoline acrylic 260ml	2			
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		woodfiller alcolone white 200g	2		
		canadian maple pvc	10		
		cover caps white adhesive	2		
		top granite rusternburg	1		
		granite 2.3mx1m	1		
		delivery	1		
		installation	1		
		wall painting(,supply,install)	46.44m2		
		floor tiles(demolish,supply,install)	28m2		
		ceiling(demolish,supply,install)	28m2		
		venetian blind w178x115	2		
		cabinet lockers	1		
		LADIES TOILET	QUALITY		
		floor tiles(demolish,supply,install)	7.48m2		
		ceiling(demolish,supply,install)	7.48m2		
		wall tiles(demolish,supply,install)	35.88m2		
		toilet	1		
		basin	1		
		tap mixer	1		
		frameless rectangular mirror 700x450x4mm	4		
		installation(toilet,basin,tap mixer)	2		
		delivery	2		
		MEN'S TOILET	QUANTIT Y		
		floor tiles(demolish,supply,install)	7.48m2		
		ceiling(demolish,supply,install)	7.48m2		
		wall tiles(demolish,supply,install)	35.88m2		

		toilet	1		
		basin	1		
		tap mixer	1		
		frameless rectangular mirror 700x450x4mm	4		
		installation(toilet,basin,tap mixer)	2		
		delivery	2		
	20. SECURITY DEPARTMENT - KITCHEN	KITCHEN	QUANTIT Y		
		remove current units	1		
		supreme white melamine	7		
		white masonite 2740x1830 3mm	2		
		melcanadian maple alp	5		
		canadian maple 1mm	141		
		canadian maple 2mm	67		
		cutting full sheet	12		
		cutting masonite sheet	2		
		cutting charge hinge hole	46		
		hinge 110% + 4 hole baseplate	48		
		handle bar 288mm 12mm	28		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		woodfiller alcolone white 200g	2		
		canadian maple pvc	10		

		cover caps white adhesive	2			
		top granite rusternburg 3950 x 600 2150x600	1			
		granite 2.3mx1m	1			
		delivery	1			
		installation	1			
		wall painting(,supply,install)	18.75m2			
		floor tiles(demolish,supply,install)	23.75m2			
		ceiling(demolish,supply,install)	23.75m2			
		wall tiles(demolish,supply,install)	210m2			
		toilets	3			
	21. WELDING SHOP TEA ROOM - KITCHEN - MEN'S TOILET					
			KITCHEN	QUANTIT Y		
			remove current kitchen units	1		
			supreme white melamine	7		
			white masonite 2740x1830 3mm	2		
			melcanadian maple alp	5		
			canadian maple 1mm	141		
			canadian maple 2mm	67		
			cutting full sheet	12		
			cutting masonite sheet	2		
			cutting charge hinge hole	46		
			hinge 110% + 4 hole baseplate	48		
			handle bar 288mm 12mm	28		
			ruuner ball bearing 500mm	4		
			drop in sink double	1		
		nail brad f40	1			
		screw 8x30 sq 500	1			

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		remove current kitchen units	1		
		supreme white melamine	1		
		white masonite 2740x1830 3mm	1		
		melcanadian maple alp	1		
		canadian maple 1mm	66		
		canadian maple 2mm	26		
		cutting full sheet	7		
		cutting masonite sheet	1		
		cutting charge hinge hole	16		
		hinge 110% + 4 hole baseplate	16		
		handle bar 288mm 12mm	12		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		canadian maple pvc	10		
		top granite rusternburg 60x 60	1		
		delivery	1		
		installation	1		
		floor tiles(demolish,supply,install)	15.86m2		
		ceiling(demolish,supply,install)	15.86m2		
		MEN'S TOILET	QUANTITY		
		wall painting(supply&labour)	63.44m2		
		floor tiles(demolish,supply,install)	67.14m2		
		ceiling(demolish,supply,install)	67.14m2		

		<table border="1"> <tr><td>wall tiles(demolish,supply,install)</td><td>95.66m2</td></tr> <tr><td>mosaic</td><td>3</td></tr> <tr><td>venetian blinds w45x57</td><td>1</td></tr> <tr><td>venetian blinds w1436x57</td><td>1</td></tr> <tr><td>venetian blinds w44x57</td><td>2</td></tr> <tr><td>urinary</td><td>1</td></tr> <tr><td>installation(urinary)</td><td>1</td></tr> <tr><td>toilet air fan supply and installation</td><td>2</td></tr> <tr><td>frameless rectangular mirror 700x450x4mm</td><td>5</td></tr> <tr><td colspan="2">LADIES TOILET</td></tr> <tr><td colspan="2">QUANTITY</td></tr> <tr><td>wall painting(supply&labour)</td><td>217m2</td></tr> <tr><td>floor tiles(demolish,supply,install)</td><td>23.94m2</td></tr> <tr><td>ceiling(demolish,supply,install)</td><td>23.94m2</td></tr> <tr><td>round basin</td><td>2</td></tr> <tr><td>cabinet with top granite</td><td>1</td></tr> <tr><td>venetian blinds w45x57</td><td>2</td></tr> <tr><td>venetian blinds w48x60</td><td>2</td></tr> <tr><td>toilet</td><td>2</td></tr> <tr><td>tap mixer</td><td>2</td></tr> <tr><td>installation(toilet,basin,tap mixer)</td><td>4</td></tr> <tr><td>showerhead</td><td>3</td></tr> <tr><td>shower (demolishing, supply and install)</td><td>3</td></tr> <tr><td>frameless rectangular mirror 700x450x4mm</td><td>6</td></tr> </table>	wall tiles(demolish,supply,install)	95.66m2	mosaic	3	venetian blinds w45x57	1	venetian blinds w1436x57	1	venetian blinds w44x57	2	urinary	1	installation(urinary)	1	toilet air fan supply and installation	2	frameless rectangular mirror 700x450x4mm	5	LADIES TOILET		QUANTITY		wall painting(supply&labour)	217m2	floor tiles(demolish,supply,install)	23.94m2	ceiling(demolish,supply,install)	23.94m2	round basin	2	cabinet with top granite	1	venetian blinds w45x57	2	venetian blinds w48x60	2	toilet	2	tap mixer	2	installation(toilet,basin,tap mixer)	4	showerhead	3	shower (demolishing, supply and install)	3	frameless rectangular mirror 700x450x4mm	6		
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		cutting full sheet	16		
		cutting masonite sheet	16		
		cutting charge hinge hole	12		
		hinge 110% + 4 hole baseplate	4		
		handle bar 288mm 12mm	1		
		ruuner ball bearing 500mm	1		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	2		
		screw 6x16 sq 500	10		
		silicone alcoline acrylic 260ml	1		
		canadian maple pvc	1		
		top granite rusternburg	1		
		delivery	1		
		installation	1		
	24. UNIT 1				
	- LADIES TOILETS OUTSIDE UNIT 1				
		wall painting(supply&labour)	56m2		
		floor tiles(demolish,supply,install)	96.48m2		
		ceiling(demolish,supply,install)	96.48m2		
		wall tiles(demolish,supply,install)	453.2m2		
		toilet	4		
		installation(toilet,basin,tap mixer)	4		
		showerhead	6		

		shower (demolishing, supply and install)	6		
		frameless rectangular mirror 700x450x4mm	14		
		delivery	1		
	25. UNIT 3&4 - OUTSIDE LADIES TOILET - MEN'S TOILET	LADIES TOILETS		QUANTITY	
		wall painting(supply&labour)	318.16m2		
		floor tiles(demolish,supply,install)	93.6m2		
		ceiling(demolish,supply,install)	93.6m2		
		toilet	7		
		basin	4		
		tap mixer	4		
		installation(toilet,basin,tap mixer)	11		
		showerhead	1		
		shower (demolishing, supply and install)	1		
		frameless rectangular mirror 700x450x4mm	16		
		MEN'S TOILET		QUANTITY	
		wall painting(supply&labour)	209.76m2		
		floor tiles(demolish,supply,install)	105.32m2		
		ceiling(demolish,supply,install)	105.32m2		
		wall tiles(demolish,supply,install)	242m2		
		toilet	9		
		urinary	3		
		installation(toilet,basin,tap mixer)	12		
		showerhead	3		
	shower (demolishing, supply and install)	3			

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ceiling(demolish,supply,install)	17.48m2																																																	
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toilet	9																																																	
basin	4																																																	
tap mixer	4																																																	
installation(toilet,basin,tap mixer)	13																																																	
frameless rectangular mirror 700x450x4mm	14																																																	
delivery	2																																																	
	27. SLURRY PLANT WORKSHOP																																																	

	- KITCHEN	KITCHEN	QUANTITY		
		remove current kitchen units	1		
		supreme white melamine	7		
		white masonite 2740x1830 3mm	2		
		melcanadian maple alp	5		
		canadian maple 1mm	141		
		canadian maple 2mm	67		
		cutting full sheet	12		
		cutting masonite sheet	2		
		cutting charge hinge hole	46		
		hinge 110% + 4 hole baseplate	48		
		handle bar 288mm 12mm	28		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		woodfiller alcolone white 200g	2		
		canadian maple pvc	10		
		cover caps white adhesive	2		
		top granite rusternburg 3950 x 600 2150x600	1		
		delivery	1		
		installation	1		
		wall painting(demolish,supply,install)	61.56m2		
		floor tiles(demolish,supply,install)	32.33m2		
		ceiling(demolish,supply,install)	32.33m2		

		<table border="1"> <tr> <td>wall tiles(demolish,supply,install)</td> <td>4.32m2</td> </tr> <tr> <td>serving station cabinets with top granite 3.6m*600mm</td> <td>3</td> </tr> </table>	wall tiles(demolish,supply,install)	4.32m2	serving station cabinets with top granite 3.6m*600mm	3																																								
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		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcolone acrylic 260ml	2		
		woodfiller alcolone white 200g	2		
		canadian maple pvc	10		
		cover caps white adhesive	2		
		top granite rusternburg 3950 x 600 2150x600	1		
		delivery	1		
		installation	1		
		wall painting(demolish,supply,install)	79.56m2		
		floor tiles(demolish,supply,install)	18.4m2		
		ceiling(demolish,supply,install)	18.4m2		
		wall tiles(demolish,supply,install)	27.25m2		
		venetian blinds w750x1430	1		
		venetian blinds w45x88	2		
		venetian blinds w470x890	1		
		lockable doors	2		
		LADIES TOILET	QUANTITY		
		floor tiles(demolish,supply,install)	8.4m2		
		ceiling(demolish,supply,install)	8.4m2		
		mosaic	1		
		toilet	1		

		<table border="1"> <tr> <td>installation(toilet,basin,tap mixer)</td> <td>1</td> </tr> <tr> <td>showerhead</td> <td>2</td> </tr> <tr> <td>shower (demolishing, supply and install)</td> <td>2</td> </tr> <tr> <td>frameless rectangular mirror 700x450x4mm</td> <td>4</td> </tr> <tr> <td colspan="2">men's toilet</td> </tr> <tr> <td>toilet</td> <td>1</td> </tr> <tr> <td>basin</td> <td>2</td> </tr> <tr> <td>tap mixer</td> <td>2</td> </tr> <tr> <td>urinary</td> <td>2</td> </tr> <tr> <td>installation(toilet,basin,tap mixer)</td> <td>5</td> </tr> <tr> <td>showerhead</td> <td>3</td> </tr> <tr> <td>shower (demolishing, supply and install)</td> <td>3</td> </tr> </table>	installation(toilet,basin,tap mixer)	1	showerhead	2	shower (demolishing, supply and install)	2	frameless rectangular mirror 700x450x4mm	4	men's toilet		toilet	1	basin	2	tap mixer	2	urinary	2	installation(toilet,basin,tap mixer)	5	showerhead	3	shower (demolishing, supply and install)	3		
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		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	2		
		screw 6x16 sq 500	2		
		silicone alcoline acrylic 260ml	10		
		woodfiller alcolone white 200g	1		
		canadian maple pvc	1		
		cover caps white adhesive	1		
		top granite rustenburg 1650x600 2500	1		
		delivery	1		
		installation	1		
		lockable door	6		
		mirror 70cmx1m	1		
	30. MATERIAL MANAGEMENT STORES - LASIES TOILET MEN'S TOILET -	Mens wall painting(supply &labour)	120m2		
		ladies toilet wall painting	130m2		
		men's toilet tiling	25m2		
		Ladies ceiling wall painting	10m2		
	31. SECURITY THANDANI GATE - KITCHEN - MEN TOILET	KITCHEN	QUANTITY		
		remove current units	1		
		supreme white melamine	7		
		white masonite 2740x1830 3mm	2		
		melcanadian maple alp	5		
		canadian maple 1mm	141		
		canadian maple 2mm	67		
		cutting full sheet	12		
		cutting masonite sheet	2		

		cutting charge hinge hole	46		
		hinge 110% + 4 hole baseplate	48		
		handle bar 288mm 12mm	28		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		woodfiller alcolone white 200g	2		
		canadian maple pvc	10		
		cover caps white adhesive	2		
		top granite rusternburg 3950 x 600 2150x600	1		
		granite 2.3mx1m	1		
		delivery	1		
		installation	1		
		wall painting(,supply,install)	33.48m2		
		floor tiles(demolish,supply,install)	9.25m2		
		ceiling(demolish,supply,install)	9.25m2		
		MEN TOILET	QUANTITY		
		floor tiles(demolish,supply,install)	16m2		
		ceiling(demolish,supply,install)	16m2		
		wall tiles(demolish,supply,install)	82m2		
		urinary	1		
		basin	1		
		tap mixer	1		

		installation(toilet,basin,tap mixer)	2		
		showerhead	2		
		shower (demolishing, supply and install)	2		
		delivery	2		
	32. FIRST FLOOR				
	- LADIES TOILET				
	- MEN'S TOILET				
	- KITCHEN – 1st Floor				
		LADIES TOILET	QUANTITY		
		Floor tiles	12M2		
		painting of ceiling	12M2		
		wall tiles	54		
		mixer tap	1		
		basins	1		
		toilets	1		
		frameless rectangular mirror 700x450x4mm	5		
		MEN'S TOILET	QUANTITY		
		floor tiles	25M2		
		painting of ceiling	25M2		
		wall tiles	108M2		
		mixer tap	2		
		basins	2		
		toilets	2		
		urinary	1		
		shower tap	1		
		shower arm and head	1		
		frameless rectangular mirror 700x450x4mm	5		
		KITCHEN 1ST FLOOR	QUANTITY		
		remove current kitchen units	1		
		supreme white melamine	7		

		white masonite 2740x1830 3mm	2		
		melcanadian maple alp	5		
		canadian maple 1mm	141		
		canadian maple 2mm	67		
		cutting full sheet	12		
		cutting masonite sheet	2		
		cutting charge hinge hole	46		
		hinge 110% + 4 hole baseplate	48		
		handle bar 288mm 12mm	28		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		
		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		woodfiller alcolone white 200g	2		
		canadian maple pvc	10		
		cover caps white adhesive	2		
		top granite rusternburg 3950 x 600 2150x600	1		
		delivery	1		
		installation	1		
	33. SECOND FLOOR				
	- LADIES TOILET				
	- 2 ND TOILET				
	- MEN'S TOILET				
	- KITCHEN				
		LADIES TOILET	QUANTITY		
		floor tiles	16M2		
		painting of ceiling	16M2		
		wall tiles	67,5		
		mixer tap	2		
		basins	2		

		toilets	2		
		blinds w 60 x 1230	2		
		blinds w1250 x 1800	1		
		frameless rectangular mirror 700x450x4mm	6		
		2ND TOILET	QUANTITY		
		floor tiles	4.95M2		
		painting of ceiling	4.95M2		
		wall tiles	2.5M2		
		floor tiles	4.95M2		
		painting of ceiling	4.95M2		
		wall tiles	8,91		
		frameless rectangular mirror 700x450x4mm	8		
		MEN'S TOILET	QUANTITY		
		floor tiles	8M2		
		painting of ceiling	8M2		
		wall tiles	54M2		
		mixer tap	1		
		basins	1		
		toilets	1		
		urinary	1		
		frameless rectangular mirror 700x450x4mm	4		
		KITCHEN - UNIT 2	QUANTITY		
		remove current kitchen units	1		
		supreme white melamine	4		
		white masonite 2740x1830 3mm	1		

		<table border="1"> <tr><td>melcanadian maple alp</td><td>3</td></tr> <tr><td>canadian maple 1mm</td><td>66</td></tr> <tr><td>canadian maple 2mm</td><td>26</td></tr> <tr><td>cutting full sheet</td><td>7</td></tr> <tr><td>cutting masonite sheet</td><td>1</td></tr> <tr><td>cutting charge hinge hole</td><td>16</td></tr> <tr><td>hinge 110% + 4 hole baseplate</td><td>16</td></tr> <tr><td>handle bar 288mm 12mm</td><td>12</td></tr> <tr><td>ruuner ball bearing 500mm</td><td>4</td></tr> <tr><td>drop in sink double</td><td>1</td></tr> <tr><td>nail brad f40</td><td>1</td></tr> <tr><td>screw 8x30 sq 500</td><td>1</td></tr> <tr><td>screw 6x16 sq 500</td><td>1</td></tr> <tr><td>silicone alcoline acrylic 260ml</td><td>2</td></tr> <tr><td>canadian maple pvc</td><td>10</td></tr> <tr><td>top granite rusternburg 1800x 600</td><td>1</td></tr> <tr><td>delivery</td><td>1</td></tr> <tr><td>installation</td><td>1</td></tr> </table>	melcanadian maple alp	3	canadian maple 1mm	66	canadian maple 2mm	26	cutting full sheet	7	cutting masonite sheet	1	cutting charge hinge hole	16	hinge 110% + 4 hole baseplate	16	handle bar 288mm 12mm	12	ruuner ball bearing 500mm	4	drop in sink double	1	nail brad f40	1	screw 8x30 sq 500	1	screw 6x16 sq 500	1	silicone alcoline acrylic 260ml	2	canadian maple pvc	10	top granite rusternburg 1800x 600	1	delivery	1	installation	1		
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		FLOOR TILES	8M2		
		PAINTING OF CEILING	8M2		
		wall tiles	54m2		
		mixer tap	1		
		basins	1		
		toilets	1		
		urinary	1		
		frameless rectangular mirror 700x450x4mm	4		
		floor tiles	6m2		
		painting of ceiling	6m2		
		wall tiles	12m2		
		wall tiles	18m2		
		KITCHEN - UNIT 3	QUANTITY		
		remove current kitchen units	1		
		supreme white melamine	5		
		white masonite 2740x1830 3mm	2		
		melcanadian maple alp	3		
		canadian maple 1mm	88		
		canadian maple 2mm	44		
		cutting full sheet	8		
		cutting masonite sheet	2		
		cutting charge hinge hole	28		
		hinge 110% + 4 hole baseplate	30		
		handle bar 288mm 12mm	18		
		ruuner ball bearing 500mm	4		
		drop in sink double	1		
		nail brad f40	1		

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		remove current kitchen units	1		
		supreme white melamine	5		
		white masonite 2740x1830 3mm	2		
		melcanadian maple alp	4		
		canadian maple 1mm	99		
		canadian maple 2mm	44		
		cutting full sheet	9		
		cutting charge hinge hole	28		
		hinge 110% + 4 hole baseplate	30		
		handle bar 288mm 12mm	18		
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		frameless rectangular mirror 700x450x4mm	9		
		installation(toilet,basin,tap mixer)	9		
		LADIES TOILET	QUANTITY		
		wall painting(supply&labour)	97.12m2		
		floor tiles(demolish,supply,install)	21.48m2		
		ceiling(demolish,supply,install)	21.48m2		
		wall tiles(demolish,supply,install)	5.4m2		
		toilet	6		
		basin	4		
		tap mixer	4		
		installation(toilet,basin,tap mixer)	13		
		frameless rectangular mirror 700x450x4mm	14		
		delivery	2		
	41. OUTSIDE TOILET 3 - MEN'S TOILET - LADIES TOILET	MEN'S TOILET	QUANTITY		
		wall painting(supply&labour)	46m2		
		floor tiles(demolish,supply,install)	61m2		
		ceiling(demolish,supply,install)	61m2		
		wall tiles(demolish,supply,install)	74.3m2		
		toilet	4		
		basin	6		
		tap mixer	6		
		frameless rectangular mirror 700x450x4mm	12		
		installation(toilet,basin,tap mixer)	10		
		LADIES TOILET QUALITY	QUANTITY		

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	<p>42. OUTSIDE TOILET 4 - MENS TOILET</p>	<table border="1"> <thead> <tr> <th>OUTSIDE TOILET 4</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr><td>wall painting(supply&labour)</td><td>223.8M2</td></tr> <tr><td>floor tiles(demolish,supply,install)</td><td>341.6M2</td></tr> <tr><td>ceiling(demolish,supply,install)</td><td>341.6M2</td></tr> <tr><td>wall tiles(demolish,supply,install)</td><td>435.6M2</td></tr> <tr><td>toilet</td><td>8</td></tr> <tr><td>basin</td><td>4</td></tr> <tr><td>tap mixer</td><td>4</td></tr> <tr><td>urinary</td><td>4</td></tr> <tr><td>installation(toilet,basin,tap mixer)</td><td>9</td></tr> <tr><td>showerhead</td><td>4</td></tr> <tr><td>shower (demolishing, supply and install)</td><td>4</td></tr> </tbody> </table>	OUTSIDE TOILET 4	QUANTITY	wall painting(supply&labour)	223.8M2	floor tiles(demolish,supply,install)	341.6M2	ceiling(demolish,supply,install)	341.6M2	wall tiles(demolish,supply,install)	435.6M2	toilet	8	basin	4	tap mixer	4	urinary	4	installation(toilet,basin,tap mixer)	9	showerhead	4	shower (demolishing, supply and install)	4		
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	<p>43. OUTSIDE UNIT 1 - LADIES TOILETSMEN'S TOILET</p>	<table border="1"> <tr><td>wall painting(supply&labour)</td><td>56m2</td></tr> <tr><td>floor tiles(demolish,supply,install)</td><td>96.48m2</td></tr> <tr><td>ceiling(demolish,supply,install)</td><td>96.48m2</td></tr> <tr><td>wall tiles(demolish,supply,install)</td><td>453.2m2</td></tr> <tr><td>toilet</td><td>4</td></tr> <tr><td>installation(toilet,basin,tap mixer)</td><td>4</td></tr> <tr><td>showerhead</td><td>6</td></tr> <tr><td>shower (demolishing, supply and install)</td><td>6</td></tr> <tr><td>frameless rectangular mirror 700x450x4mm</td><td>14</td></tr> <tr><td>delivery</td><td>1</td></tr> <tr><td colspan="2"> </td></tr> <tr><td>floor tiles(demolish,supply,install)</td><td>11m2</td></tr> <tr><td>ceiling(demolish,supply,install)</td><td>11m2</td></tr> <tr><td>toilet</td><td>4</td></tr> <tr><td>installation(toilet,basin,tap mixer)</td><td>3</td></tr> <tr><td>showerhead</td><td>2</td></tr> <tr><td>shower (demolishing, supply and install)</td><td>2</td></tr> <tr><td>venetian blinds w440x570</td><td>1</td></tr> <tr><td>venetian blinds w440x580</td><td>3</td></tr> <tr><td>frameless rectangular mirror 700x450x4mm</td><td>14</td></tr> </table>	wall painting(supply&labour)	56m2	floor tiles(demolish,supply,install)	96.48m2	ceiling(demolish,supply,install)	96.48m2	wall tiles(demolish,supply,install)	453.2m2	toilet	4	installation(toilet,basin,tap mixer)	4	showerhead	6	shower (demolishing, supply and install)	6	frameless rectangular mirror 700x450x4mm	14	delivery	1			floor tiles(demolish,supply,install)	11m2	ceiling(demolish,supply,install)	11m2	toilet	4	installation(toilet,basin,tap mixer)	3	showerhead	2	shower (demolishing, supply and install)	2	venetian blinds w440x570	1	venetian blinds w440x580	3	frameless rectangular mirror 700x450x4mm	14		
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	<p>44. PROPERTY BUILDING - KITCHEN - LADIES TOILET</p>	<table border="1"> <thead> <tr> <th>KITCHEN</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr><td>remove current kitchen units</td><td>1</td></tr> <tr><td>supreme white melamine</td><td>7</td></tr> <tr><td>white masonite 2740x1830 3mm</td><td>2</td></tr> <tr><td>melcanadian maple alp</td><td>5</td></tr> <tr><td>canadian maple 1mm</td><td>141</td></tr> <tr><td>canadian maple 2mm</td><td>67</td></tr> <tr><td>cutting full sheet</td><td>12</td></tr> <tr><td>cutting masonite sheet</td><td>2</td></tr> <tr><td>cutting charge hinge hole</td><td>46</td></tr> <tr><td>hinge 110% + 4 hole baseplate</td><td>48</td></tr> <tr><td>handle bar 288mm 12mm</td><td>28</td></tr> <tr><td>ruuner ball bearing 500mm</td><td>4</td></tr> <tr><td>drop in sink double</td><td>1</td></tr> <tr><td>nail brad f40</td><td>1</td></tr> </tbody> </table>	KITCHEN	QUANTITY	remove current kitchen units	1	supreme white melamine	7	white masonite 2740x1830 3mm	2	melcanadian maple alp	5	canadian maple 1mm	141	canadian maple 2mm	67	cutting full sheet	12	cutting masonite sheet	2	cutting charge hinge hole	46	hinge 110% + 4 hole baseplate	48	handle bar 288mm 12mm	28	ruuner ball bearing 500mm	4	drop in sink double	1	nail brad f40	1		
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		screw 8x30 sq 500	1		
		screw 6x16 sq 500	1		
		silicone alcoline acrylic 260ml	2		
		woodfiller alcolone white 200g	2		
		canadian maple pvc	10		
		cover caps white adhesive	2		
		top granite rusternburg	1		
		delivery	1		
		installation	1		
		wall painting(demolish,supply,install)	89,28m2		
		floor tiles(demolish,supply,install)	7.2m2		
		ceiling(demolish,supply,install)	7.2m2		
		venetian blinds w440x570	1		
		venetian blinds w440x580	2		
		venetian blinds w470x880	1		
		LADIES TOILET		QUANTITY	
		floor tiles(demolish,supply,install)	8.4m2		
		ceiling(demolish,supply,install)	8.4m2		
		mosaic	1		
		toilet	1		
		installation(toilet,basin,tap mixer)	1		
		showerhead	2		
		shower (demolishing, supply and install)	2		
		lockable doors supply and install	8		
		frameless rectangular mirror 700x450x4mm	6		

		<table border="1"> <thead> <tr> <th>MEN'S TOILET</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr> <td>toilet</td> <td>2</td> </tr> <tr> <td>basin</td> <td>2</td> </tr> <tr> <td>tap mixer</td> <td>2</td> </tr> <tr> <td>urinary</td> <td>2</td> </tr> <tr> <td>installation(toilet,basin,tap mixer)</td> <td>5</td> </tr> <tr> <td>showerhead</td> <td>2</td> </tr> <tr> <td>shower (demolishing, supply and install)</td> <td>2</td> </tr> <tr> <td>frameless rectangular mirror 700x450x4mm</td> <td>6</td> </tr> </tbody> </table>	MEN'S TOILET	QUANTITY	toilet	2	basin	2	tap mixer	2	urinary	2	installation(toilet,basin,tap mixer)	5	showerhead	2	shower (demolishing, supply and install)	2	frameless rectangular mirror 700x450x4mm	6				
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	<p>45. Engineering Building WEST SIDE WING</p> <ul style="list-style-type: none"> - Ladies toilet - Men's toilet - Kitchen - Office Painting - Tiling replacement on the entire building. <p>EAST SIDE WING</p> <ul style="list-style-type: none"> - Ladies toilet - Men's toilet - Kitchen - Office Painting - Tiling replacement on the entire building. 	<table border="1"> <thead> <tr> <th>LADIES TOILET (WEST AND EAST)</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr> <td>floor tiles (demolish, supply, install)</td> <td>18.17m2</td> </tr> <tr> <td>Ceiling painting</td> <td>18.17m2</td> </tr> <tr> <td>mosaic</td> <td>1 m2</td> </tr> <tr> <td>toilet</td> <td>2</td> </tr> <tr> <td>Installation (toilet, basin, tap mixer)</td> <td>3</td> </tr> <tr> <td>showerhead</td> <td>1</td> </tr> <tr> <td>Wall painting.</td> <td>45.4m2</td> </tr> <tr> <td>lockable doors supply and install</td> <td>8</td> </tr> <tr> <td>frameless rectangular mirror 700x 450x 4mm</td> <td>2</td> </tr> </tbody> </table>	LADIES TOILET (WEST AND EAST)	QUANTITY	floor tiles (demolish, supply, install)	18.17m2	Ceiling painting	18.17m2	mosaic	1 m2	toilet	2	Installation (toilet, basin, tap mixer)	3	showerhead	1	Wall painting.	45.4m2	lockable doors supply and install	8	frameless rectangular mirror 700x 450x 4mm	2		
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frameless rectangular mirror 700x 450x 4mm	2																							

MENS TOILET		QUANTITY
floor tiles(demolish,supply,install)		31.7m2
Ceiling painting		31.7m2
Wall painting		79.3m2
Toilet (remove, supply and install)		2
installation(toilet,basin,tap mixer)		2
frameless rectangular mirror 700x450x4mm		2
KITCHEN		QUANTITY
Modify exsting kitchen units to cater for Micrawaves		1
supreme white melamine		7
white masonite 2740x1830 3mm		2
melcanadian maple alp		5
canadian maple 1mm		1
canadian maple 2mm		67
cutting full sheet		5
cutting masonite sheet		2
cutting charge hinge hole		46
hinge 110% + 4 hole baseplate		48
handle bar 288mm x12mm		28
ruuner ball bearing 500mm		4
drop in sink double		1
nail brad f40		1
screw 8x30 sq 500		1
screw 6x16 sq 500		1
silicone alcoline acrylic 260ml		2
woodfiller alcolone white 200g		2

		<table border="1"> <tr> <td>canadian maple pvc</td> <td>10</td> </tr> <tr> <td>cover caps white adhesive</td> <td>2</td> </tr> <tr> <td>Supply and Install top granite Rustenburg</td> <td>18m2</td> </tr> <tr> <td>Supply and install a new hyro boiler</td> <td>3</td> </tr> <tr> <td>Supply and install a new filter systems</td> <td>2</td> </tr> <tr> <td>wall painting(supply,install)</td> <td>52.5m2</td> </tr> <tr> <td>floor tiles(demolish,supply,install)</td> <td>21m2</td> </tr> <tr> <td>ceiling(demolish,supply,install)</td> <td>116.45m2</td> </tr> <tr> <td>venetian blinds w440x580</td> <td>2</td> </tr> </table>	canadian maple pvc	10	cover caps white adhesive	2	Supply and Install top granite Rustenburg	18m2	Supply and install a new hyro boiler	3	Supply and install a new filter systems	2	wall painting(supply,install)	52.5m2	floor tiles(demolish,supply,install)	21m2	ceiling(demolish,supply,install)	116.45m2	venetian blinds w440x580	2		
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	<p>46. Design, Procure, Supply, Configure and Commission all equipment necessary for a fully functional system to improve boardroom visual and audio quality as per Requirements specified in this Scope of work.</p> <p>Boardroom description:</p> <ul style="list-style-type: none"> - Dimensions: 10 m x 9m x 3m - 6 rows of connected tables with 58 total chairs, row 1 has 8 chairs and row 2-6 has 10 chairs each. - Chairperson table sits two people. - There is a CO-FH02 Projector currently installed, mounted on the ceiling board facing the front wall.Floor has 30x30cm tiles 	<p>2.1.1 Audio Improvement Requirements, provide and install the following:</p> <ol style="list-style-type: none"> I. 60 gooseneck Microphones II. 1 wireless microphone III. Mixer and an Amplifier IV. 4 speakers: V. 2 x full-range speakers (20-50 watts each) for the front of the room VI. 2 x smaller speakers (10-20 watts each) for the rear of the room <p>2.1.2 Visual improvement Requirements, provide and install the following:</p> <ol style="list-style-type: none"> I. 85-inch display x2 II. Active HDMI splitter <ul style="list-style-type: none"> • 1 input to 4 output • Input is chair person laptop • Output is two 85-inch displays and CO-FH02 III. Mobile stand with four wheels to mount the 85 inch display <p>2.1.3 Sound Proofing requirements, provide and install soundproof door as follow</p> <ol style="list-style-type: none"> I. Acoustic fire door requirements <ul style="list-style-type: none"> • Class D fire doors (120 minutes of fire protection, supplied with steel frames only). • Sound proofing: 40dB sound insulation. 																				

		<p>II. Transportation and installation requirements.</p> <ul style="list-style-type: none"> • Contractor is responsible for transportation and installation of acoustic fire door <p>Quality control inspections are required for the door prior to delivery to Matla.</p>		
2.4	<p>Note: Housekeeping</p> <ul style="list-style-type: none"> - Remove all rubble and dispose in allocated areas. - Basins, toilets and sinks still in usable condition should be left with Civil Maintenance on site. 			

BILL OF MATERIAL

	Full description Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
1	Gooseeck microphones	Type: Gooseneck microphone, Frequency Response: 70 Hz - 20 kHz, Sensitivity: 2.5 mV/Pa (± 3 dB), Polar Pattern: Cardioid, Power Requirements: 11-52V Power ,Dimensions:, max Length: (45 cm), Diameter: (3 cm), Base diameter: (12 cm), Base height: (6 cm)	N/A	N/A	60

2	Wireless microphone	Type: Digital wireless handheld microphone, Capsule: Dynamic (SM58 or equivalent), Polar Pattern: Cardioid (or supercardioid), Frequency Response: 50 Hz - 15 kHz, Sensitivity: 2.5 mV/Pa, Integrated transmitter, Power Output: 10-30 mW, Battery Life: Up to 10 hours, Battery Type: AA or any rechargeable options.	N/A	N/A	1
3	Receiver	Type: Microphone Digital wireless receiver, Tuning Bandwidth: 120 MHz (or wider), Frequency Response: 20 Hz - 20 kHz, Signal-to-Noise Ratio (SNR): ≥100 dB, Total Harmonic Distortion (THD): ≤0.05%	N/A	N/A	1
4	Mixer	Mixer, Mic Inputs: 64 (or more), Input Type XLR(Balanced), Automatic Microphone Mixing(AMM), Power Requirements 220/230VAC, Power Consumption: ≤ 100W, Rack-mountable (standard 19-inch width), additional requirements	N/A	N/A	1
5	Amplifier	Type: Professional audio power amplifier, Application: Boardroom sound system, Number of Channels: 2-4 (stereo or multi-zone), Minimum Power Output: 100W-500W (total), Peak Power Output: 200W-1000W, Frequency Response: 20 Hz - 20 kHz (+/- 1 dB), Input: XLR (balanced), Rack-mountable (standard 19-inch width), Voltage: 100-240VAC, 50/60Hz	N/A	N/A	1
6	Full range speakers	Type: Ceiling-mounted, compact full-range speaker, Power Handling: 10-20W RMS, 50-100W peak, Frequency Response: 100Hz - 15kHz Sensitivity: 85dB, Impedance: 8 ohms, Driver Size: 5-10cm, Mounting: Tile-rail or screw-mount, Dimensions: ≤15 x 15 x 7cm, Weight: ≤1.5kg	N/A	N/A	2
7	Small speakers	Type: Compact full-range speaker, Power Handling: 10-20W RMS, 50-100W peak, Frequency Response: 100Hz - 15kHz, Sensitivity: 85dB, Impedance: 8 ohms, Driver Size: 7-15cm, Mounting: ceiling-mountable, Dimensions: ≤15 x 10 x 7cm, Weight: ≤1.5kg	N/A	N/A	2

7	Acoustic Fire Door	Class D fire doors (120 minutes of fire protection, supplied with steel frames only), Sound proofing: 40dB sound insulation. Quality control inspections are required for the door prior to delivery to Matla	N/A	Class D	1
RESOURCES					
8					Sum

SCOPE COMPILATION REFERENCES				
SOURCE & Ref No.	Yes	No	N/A	Comments
Previous outage service reports		X		
Return to service data packages		X		
Maintenance Strategy with Rev number	X			
SAP defects (attach list as appendix)	X			
GHRMS (STEP) reports (Generation Heat Rate Management System)			X	
Online Condition Monitoring		X		
Pre-outage performance test results		X		

Post outage performance test results		X		
GPSS/ Plant Performance data on UCLF incurred		X		
OMS / IIRMS recommendations (Audits Reports)		X		
Risk controls (IRM system)		X		
Previous audits and reviews (e.g. ERAP)		X		
Engineering Change Requests (Projects)			X	
LOPP strategy reports		X		
URS		X		
Philosophy (Outage)		X		
Condition Monitoring Report		X		
VA/PHD Viewer trends		X		
Corrective Actions	X			
CARAB reports		X		
Statutory Requirements	X			
Grid code requirements		X		
Waivers and Exemptions		X		
Calibration requirements		X		
Previous Outage SOW variations		X		
Post Mortems Actions from previous outages	X			
Pre-Outage plant walks	X			
Risk based inspection (RBI) report		X		
Simulation, TOIs, OON, SI		X		

2. Drawings

Drawing number	Revision	Title
	N/A	
	N/A	
	N/A	

3. Specifications

Title	Date or revision	Tick if publicly available
General Specifications:		
Health and Safety Specifications For Contracting Companies	OMOP 2605	Yes
Eskom Life Saving Rules	32-421	Yes
Construction Regulations	32-136	Yes
Conflict of Interest Policy	32-173	Yes
Plant Safety Regulations		Yes
Technical specifications As per Engineering Scope of Works		

1.4 Interpretation and terminology

The following abbreviations are used in this Works Information:

Abbreviation	Meaning given to the abbreviation
QCP	Quality Control Plan
ITP	Inspection Test Plan
QMS	Quality Management System
ISO	International Standards Organisation

2 Management and start up.

2.1 Management meetings

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

Title and purpose	Approximate interval	time &	Location	Attendance by:

Risk register, Early warnings and compensation events	Bi- weekly	TBC	<i>Employer, PM, Contractor, Supervisor, and Others as per the invite from the Project Manager</i>
Construction progress meeting	Monthly	TBC	<i>Employer, PM, Contractor, Supervisor, and Others as per the invite from the Project Manager</i>
Commercial and Assessment meeting	Monthly	TBC	<i>Employer, PM, Contractor, Supervisor, and Others as per the invite from the Project Manager</i>
Quality meeting	As advised by the Project Manager	TBC	<i>Employer, PM, Contractor, Supervisor, and Others as per the invite from the Project Manager</i>
SHE meetings	As advised by the Project Manager	TBC	<i>Employer, PM, Contractor, Supervisor, and Others as per the invite from the Project Manager</i>
Integration meeting	As advised by the Project Manager	TBC	<i>Employer, PM, Contractor, Supervisor, and Others as per the invite from the Project Manager</i>
Planning meeting	As advised by the Project Manager	TBC	<i>Employer, PM, Contractor, Supervisor, and Others as per the invite from the Project Manager</i>
Outage Meeting	Daily	TBC	<i>Employer, PM, Contractor, Supervisor, and Others as per the invite from the Project Manager</i>
Document Management	Adhoc	TBC	<i>Employer, PM, Contractor, Supervisor, and Others as per the invite from the Project Manager</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.

2.2 Documentation control

2.1 Documentation Requirements

The *Contractor* is responsible for the compilation and the supply of the documentation during the various project stages and to provide the documentation programme to link with the milestone dates. Documentation and drawings are programmed for delivery to meet the milestone dates.

All documents supplied by the *Contractor* shall be subject to Eskom's approval. For consistency, it is important that all documents used within the project follow the same layout, style and formatting as described in the Technical Documents and Records Management Work Instruction Documents such as QCP's, Method Statements and other documents impacting the work shall be approved by the *Employer* at least prior to commencement of the Works.

Each revision of a document or drawing shall be accompanied with a list of the comments made by the *Employer* on the previous revision if applicable and the response/corrective action taken by the *Contractor*. Changes shall be recorded in a revision table contained in each drawing/document.

Documents and drawings shall indicate the *Employer's* number as allocated by the *Employer*. The *Contractor* may have his own internal document or drawing number on the document or drawing, but where reference is made among documents, the *Employer's* number shall be used as the reference number.

The *Contractor* shall compile a complete data book for all work done during manufacturing, construction and commission containing the following as a minimum if applicable:

- Scope of work
- Approved "As built" drawings (CADDED)
- Design calculations
- Approved QCP / ITP
- Inspection reports
- Pipe ovality reports if applicable
- As built drawings (isometric drawings and P&IDs)
- Material summary that gives full traceability between components used, drawings and material certificates
- All material certificates for pipes, fittings and all components used.
- Pressure test certificate and the calibration certificates of the gauges used.
- Pressure test procedures
- The manufacturer's/repairer's certificate as defined in PER.
- All CAR's and corrective actions
- Operating Philosophy including all alarm and trip values
- Parts catalogue
- Maintenance manual
- Storage, packing and transportation instructions

2.2 Document Identification

The documentation requirements cover the various engineering stages, from the design stage through fabrication, installation, testing and commissioning and most importantly for the operating, maintenance and training stages of the project.

The *Contractor* is responsible for the compilation and the supply of the documentation during the various project stages and to provide the documentation programme linked to the milestone dates. Completion dates for documentation and drawings are scheduled to meet the milestone dates.

All documents supplied by the *Contractor* shall be subject to Eskom's approval. For consistency, it is important that all documents used within the project follow the same layout, style and formatting as described in the Technical Documents and Records Management Work. Documents such as QCP's, Method Statements and other documents impacting the work shall be approved by the *Employer* at least 3 working days prior to commencement of the Works.

- The *Contractor* shall ensure that document has the following minimum attribute on the cover page:
 - Title of the document
 - Document Unique Identification Number (Eskom number)
 - *Contractor* Document number, if applicable
 - Document status
 - Revision number
 - Document Type
 - Document security level
 - Document revision table/history
 - Page number on the footer
 - Document Author/Authoriser/
 - Document Originator *Contractor*
- The following additional attributes are important for technical documents:
 - Package/System name, sub-system if applicable
 - Unit/s number
 - *Contractor* name
 - *Contractor* number
 - Plant Identification Codes

2.3 Format and Layout of Documents

For consistency, it is important that all documents used within a specific domain follow the same layout, style and formatting standard.

Layout and Typography

- Every document should comply with the following font specifications:
 - Font Colour: Black
 - Main Headings Font Type: Arial, Bold, Capital Letters
 - Main Heading Font Size: 12pt
 - Sub Headings Font Type: Arial, Bold, Title Case
 - Sub Headings Font Size: 11pt
 - Body Font Type: Arial, Sentence Case i.e., only the first letter of the first word is a capital letter.
 - Body Text Font size: 11pt
 - Line Spacing: 1.5 line spacing
 - Margins: standard

- Alignment: full justification to be used
- Paragraphing: one line skip between paragraphs
- Pagination: centred page numbers (about 0.5 inches from bottom)
- Indentations: standard tab for all paragraphs (about 0.4 to 0.5 inches)

Document Headers

The header should include the project name, document title, document number, revision number and page number.

Naming of files

The Contractor will comply with the Eskom standard for naming documentation files. The standard is as follows:

For documents that have approval date and signature

(YYYYMMDD_DocType_DocumentTitle_UniqueIdentifier_Revision.FileExtension)

For documents that do not necessarily require the 'Approved Date' and 'Revision & Versioning', use the date of update

(YYYYMMDD_DocType_DocumentTitle_UniqueIdentifier_Revision.FileExtension)

2.3 Document Submission

Contractor engineering program reasonable mailing, processing, and review of drawings and data by *Employer*. The *Contractor* is responsible for the compilation and the supply of all the documentation required during the various project stages and to provide the documentation programmed to link with the milestone dates.

If the *Contractor* makes further changes to the equipment and materials shown on submittals that have been reviewed by the *Employer*, the changes shall be clearly marked on the submittal by the *Contractor* and the submittal process shall be repeated. If changes are made by *Contractor* after delivery to the Plant, as-built drawings indicating the changes shall be prepared by *Contractor* and submitted to *Employer* for review. Any resubmittal of information shall clearly identify the revisions by footnote or by a form of back-circle, with revision block update, as appropriate.

Transmittals

All document exchange shall be done using formal Transmittals. The following is the minimum information required for sending transmittals:

- Title of the document
- Reason for issuing/submission
- Transmittal Number
- Transmittal Name
- Transmittal Description
- Contract Number:
- Package Number
- Transmittal purpose
- Sender Name
- Sender E-Mail
- Sender Organisation
- Recipient Name
- Recipient E-Mail
- Recipient Organisation
- Disclosure Classification
- Date received
- Quantity of documentation referenced on the transmittal
- Number of copies
- Format/medium submitted (e.g. paper, DVD, etc.)
- Sender signature
- Recipient signature, once submitted, to acknowledge receipt

1. If a transmittal is in response to an Eskom communication via transmittal, the Eskom Transmittal Number shall be referenced in the transmittal response and shall be provided in addition to the meta-data required.
2. The *Contractor* shall follow a structured and standard definition for Transmittal Descriptions, i.e. a subject line convention of **YYYYMMDD – <Contract Number> – <Short Description> – <Sender Initials>**.
3. **The *Contractor* shall follow a structured method of communication as defined within Communication Interface Memorandum (CIM) for any correspondence**
4. The *Contractor* shall follow a structured and standard definition for email subjects i.e. a subject line convention of **YYYYMMDD – < Package File Number> – > – <Email Subject line>**.
5. The *Contractor* shall select the purpose for transmittal in line with the standard Eskom Selection Criteria:
 - Issued for Approval
 - Issued for Award
 - Issued for Basic Design
 - Issued for Commissioning
 - Issued for Concept Design
 - Issued for Consideration
 - Issued for Construction
 - Issued for Detail Design
 - Issued for Document Review
 - Issued for Handover
 - Issued for Information
 - Issued for Installation
 - Issued for Manufacturing
 - Issued for Procurement
 - Issued for Review
 - Issued for Tender
6. Issuing of documents with different transmittal purposes shall be done separately and shall not combined into one transmittal. This will ensure fast and efficient processing of incoming and outgoing transmittals and information exchange.

Electronic technical data submittals shall be made using the project manager's email address (and Zendto, a Web-based file transfer service. If *Contractor* does not already have Zendto transmittal capability, information is available at <https://zendto.eskom.co.za/>. (The Uniform Resource Locator [URL] to be used for electronic file submittals will be made available upon Contract award.)

In case of email submission, the Contractor should note that if a single file to be transmitted is over 2MB in size, then the document shall be uploaded on Zendto portal.

Notification to Engineer that submittals have been posted to Zendto shall be in accordance with the correspondence requirements of this Contract. *For the Zendto submission, a transmittal record must be submitted to the project email document control address information the Employer of such a submission.*

2.4 Health and safety risk management

The *Contractor* shall comply with:

- The Occupational Health and Safety Act, 1993, and all regulations made there under;
- All Eskom Safety and Operating Procedures.

The *Contractor* acknowledges that it is fully aware of the requirements of all the above and undertakes to employ only people who have been duly authorised in terms thereof and who have received sufficient safety training to ensure that they can comply therewith.

The *Contractor* undertakes not to do, or not to allow anything to be done which will contravene any of the provisions of the Act, Regulations or Safety and Operating Procedures.

The *Contractor* shall appoint a person who will liaise with the Eskom Safety Officer responsible for the premises relevant to this contract.

Do safety audits at the *Contractor's* premises, its work-places and on its employees;

Refuse any employee, sub-contractor or agent of the *Contractor* access to its premises if such person has been found to commit any unlawful act or any unsafe working practice or is found to be not authorised or qualifies in terms of the Act;

Issue the *Contractor* with a work stop order or a compliance order should Eskom become aware of any unsafe working procedures or conditions or any non-compliance with the Act, Regulations and Procedures referred to in 1 above by the *Contractor* or any of its employees, sub-contractors or agents.

The *Contractors* safety file is to be submitted for approval to Matla's Safety Officer within three (3) days after order placement.

2.5 Environmental constraints and management

The *Contractor* shall comply to environmental authorizations obligations, water use licences, environmental management plan/programmes, any other applicable legislative requirements (local, provincial, national and international). The *Contractor* shall also comply with Eskom policies and procedures.

The *Contractor* develops and implements as a minimum the following procedures/ method statement in line with site environmental regulations:

- Environmental Management Plan
- Site Establishment Procedure
- Site Layout Plan
- Waste Management Procedure
- Spill Management Procedure
- Hazardous Chemical Substances Management and Storage Procedure
- Emergency Preparedness and Response Plan
- Dust Control Procedure

2.6 Quality assurance requirements

The *Contractor* shall be required to demonstrate by means of a Quality Plan that this organisation is so structured that all the requirements of the specification will be properly monitored and controlled. The Quality Plan and Control procedures are to be carried out in accordance with the Quality Control document NWS 1841/C1 and the Matla Quality Manual for *Contractor*. The Quality Control document is to be submitted for approval to Matla Engineering within three (3) days after order placement by the *Contractor*.

No work may commence unless the Quality Control document has been approved in writing and a copy submitted to *the Employers Representative*. *The Contractor*, in conjunction with Matla Engineering must sign off all Quality Control documents after completing all work on site. *The Contractor* to submit a copy of the final signed off document to *the Employers Representative* within 1 week after Completion of the works.

The following requirements shall also be met for the entire duration of the contract. The standard 240-105658000, "Supplier Quality Management Specification (QM58)" shall be complied with.

- The supplier shall complete and sign **Form A** (Enquiry/Contract/Quality Requirements for QM 58 and ISO 9001).
- The supplier shall submit objective evidence of a developed QMS that complies with **ISO 9001** (or the latest applicable revision). The following documents (approved/signed copies) shall be submitted:
 - Quality management system manual or a document that defines and describes the QMS and its scope
 - Quality Policy
 - Control of documented information
 - Records required by ISO 9001 standard (List of Records)
 - Internal audit procedure
 - Control of nonconformity outputs
 - Nonconformity and Corrective action procedure

The QMS should drive all the supplier's business management processes to ensure that all of Eskom's requirements are fully met on a consistent basis.

2.7 Programming constraints

The Contractor will provide a detailed programme every second day during the project or as requested by the *Employers Representative*. The *Employer* may terminate a contract if a detailed programme is not submitted as requested by the *Employers Representative*. The final contract programme and breakdown will be agreed upon within five (5) working days after order placement by the *Employer* & the *Contractor*.

- **More than R350 000,00**
 - Computerized logic network
 - Network barchart
 - Time analysis (print out listing)
 - Weekly updated critical activities report
 - Weekly updated resource report
 - Weekly updated interface dates with other *Contractors*.
- **Activities on critical path**

On request from the *Employers Representative* for work on critical path the *Contractor* must submit

- Computerized programme twice a day.
- However, should a logic change been executed by the *Contractor*, A revised network, bar-chart and time analysis must be submitted by the *Contractor*.
- Key dates are considered as part completion dates and failure by the *Contractor* to meet those dated could result in the imposition of penalties by Eskom.
- If any difficulties are foreseen in complying with the requirements of this document, these must be resolved with the *Employers Representative* before the tender is submitted.

2.7.1 Construction schedule

The *Contractor* is required to submit a construction schedule and finalized resource schedule weekly for review and acceptance by the *Project Manager*. The schedule shall satisfy the following criteria:
Accurate sequencing of all activities and their relationships in the program
Clearly indicating first and second critical path of the program
Performance in planned versus actual completed activities and explanation of their variance
Clear indication of integration points to others
Identify when services are required for commissioning purposes

2.7.2 Commissioning schedule

During the progress of the works. The contractor develops a detailed commissioning schedule with sufficient detail to enable the work to be adequate progressed in order to meet key dates and the completion dates. The schedule must show alignment interface and compatibility with the employer and others.

2.8 Contractor's management, supervision and key people

The *Contractor* to provide organogram listing management and key personnel including the following:

Project Manager
Site Manager (Site dedicated)
Construction Supervisor (Site dedicated)
Safety Officer (Site dedicated)
Core Crew

2.9 Invoicing and payment

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 showing the amount due for payment equal to that stated in the *Project Manager's* payment certificate. Clause 50.2 states invoices submitted by the *Contractor* include the details stated in the Scope to show how the amount due has been assessed. The *Contractor* shall address the tax invoice to the email address that will be provided and include on it the following information. The *Contractor* shall address the tax invoice to Eskom Holdings SOC Ltd and include on each invoice the following information:

Name and address of the *Contractor* and the *Project Manager*;
The contract number and title;
Contractor's VAT registration number;
The *Employer's* VAT registration number 4740101508;
Description of service provided for each item invoiced based on the Price List;
Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
(add other as required)

2.10 Insurance provided by the Employer

Refer to clause 84 of this contract

2.11 Contract change management

Contract change management will follow the normal compensation event process. Any change implemented by the *Contractor* without following the compensation event process will not be assessed for payment by the Project Manager

Compensation events shall be managed in line with clauses 60, 61, 62, 63, 64 and 65 of the NEC3 Engineering Construction Contract

2.12 Provision of bonds and guarantees

Applicable as per the agreed Works information specification.

2.13 Records of Defined Cost, payments & assessments of compensation events to be kept by the *Contractor*

Not applicable

2.14 Training workshops and technology transfer

Not applicable

3 Engineering and the *Contractor's* design

3.1 *Employer's* design

As attached to the signed scope of work

3.2 Parts of the *works* which the *Contractor* is to design

Produce drawings as per scope of work

3.3 Procedure for submission and acceptance of *Contractor's* design

All design works to be submitted to Matla engineering department for approval prior to installation, all design works to be in accordance to the scope of work unless an alternative has been agreed by both parties

3.4 Other requirements of the *Contractor's* design

Comply with Eskom requirements

3.5 Use of *Contractor's* design

Project specific drawing ,data and equipment specifications will become property of Eskom to be used within Eskom as deemed required

3.6 Design of Equipment

Not applicable

3.7 Equipment required to be included in the *works*

The *Contractor* provides plant and materials, machinery, tools, labour, transportation, construction fuels, chemicals, construction utilities, and administration and other services and items required to complete the scope of work.

As per scope of work

3.8 As-built drawings, operating manuals and maintenance schedules

Contractor to submit a complete Data pack.

4 Procurement

4.1 People

4.1.1 Minimum requirements of people employed on the Site

Not applicable, otherwise stated in the works information

4.1.2 BBBEE and preferencing scheme

Not applicable

4.1.3 Accelerated Shared Growth Initiative – South Africa (ASGI-SA)

Not applicable

4.2 Subcontracting

4.2.1 Preferred subcontractors

ECC does not make use of nominated subcontracting, but the *Employer* may list which subcontractors or suppliers the *Contractor* is required to enter into subcontracts with. This is usually only required where Plant and Materials need to be obtained from a particular supplier or group of suppliers in order to comply with operational standards

4.2.2 Subcontract documentation, and assessment of subcontract tenders

Not Applicable

4.2.3 Limitations on subcontracting

The *Employer* may require that the *Contractor* must subcontract certain specialised work, or that the *Contractor* shall not subcontract more than a specified proportion of the whole of the contract.

4.2.4 Attendance on subcontractors

Not Applicable

4.3 Plant and Materials

4.3.1 Quality

The *Contractor* shall be required to demonstrate by means of a Quality Plan that this organisation is so structured that all the requirements of the specification will be properly monitored and controlled. The Quality Plan and Control procedures are to be carried out in accordance with the Quality Control document NWS 1841/C1 and the Matla Quality Manual for *Contractor*. The Quality Control document is to be submitted for approval to Matla Engineering and Quality within three (3) days after order placement by the *Contractor*.

No work may commence unless the Quality Control document has been approved in writing and a copy submitted to *the Employers Representative*. *The Contractor*, in conjunction with Matla Engineering and Quality must sign off all Quality Control documents after completing all work on site. *The Contractor* to

submit a copy of the final signed off document to *the Employers Representative* within 1 week after Completion of the works.

4.3.2 Plant & Materials provided “free issue” by the *Employer*

Not Applicable

4.3.3 *Contractor’s* procurement of Plant and Materials

As per the Scope of work

4.3.4 Spares and consumables

Any other spares and material required to complete the Works will be the responsibility of the *Contractor*, unless otherwise stated in the Works Information

4.4 Tests and inspections before delivery

The *Contractor* must make a provision for access for the inspection of the manufacturing of the equipment’s as and when required

4.5 Marking Plant and Materials outside the Working Areas

Not applicable

4.6 *Contractor’s* Equipment (including temporary works).

It is the *Contractor’s* responsibility to safeguard his Equipment onsite and offsite for the whole duration of the contract.

4.7 Cataloguing requirements by the *Contractor*

Not applicable

5 Construction

5.1 Temporary works, Site services & construction constraints

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

The *Contractor's* Personnel and any visitors on the Project Site must be in possession of a valid identification card supplied by the *Employer*. Applications for identification cards shall be made in the form prescribed by the Project Manager. The identification cards shall be used to gain access to the Project Site and only persons with legitimate business on the Project Site and in possession of such identification cards will be allowed access. Applications for identification cards shall be made in good time prior to access being required. Lost, stolen or damaged cards shall be reported to the Project Manager immediately. A fee shall be charged for replacement cards. Identification card holders will be required to produce their identification cards for an ID photo at the security check points. Where a card holder's right of access to the Project Site is withdrawn, their identification card will be electronically cancelled. It is the responsibility of the *Contractor* to ensure the card is returned to the Project Manager.

Removal of Goods from the Project Site

All persons removing *inter alia* materials, equipment, toolboxes, temporary facilities etc. from the Project Site must be in possession of a valid gate release permit. Applications for general or specific gate release permits shall be made in the form prescribed by the *Project Manager*.

Access Control for Vehicles

Only a limited number of *Contractor* and Subcontractor non-construction vehicles will be allowed onto the Project Site.

Visitors

Before entering the Project Site, visitors (meaning any person other than the *Contractor's* Personnel) must be in possession of a valid identification card as mentioned above. Applications shall be made in a form prescribed by the *Project Manager* prior to access being required and visitors must be in possession of positive identification. The *Contractor's* visitors shall be subject to all Project Site rules and regulations including those related to Health & Safety and discipline

Fire-arms

Fire-arms will not be permitted on the Project Site (nor at other places, if any, as may be specified under the Contract as forming part of the Site). This restriction does not, however, apply to the South African Police Services in the pursuance of official duties and Security personnel approved by the *Project Manager*.

5.1.2 Restrictions to access on Site, roads, walkways and barricades

The *Contractor* shall comply with the restrictions to access on site, roads, walkways and barricades according to the site specifications

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

It is very important that the *Contractor* keeps records of his people on Site, including those of his Subcontractors which the Project Manager or Supervisor have access to at any time. These records may be needed when assessing compensation events. The *Contractor* shall inform the Project Manager in advance for any work that is planned to be executed outside the official working hours.

The *Employer's* working hours are from:

- 07:00 to 16:30 Monday to Thursday
- 07:00 to 12:00 on Friday

5.1.4 Health and safety facilities on Site

The *Contractor* shall comply with

- The Occupational Health and Safety Act, 1993, and all regulations made there under;
- All Eskom Safety and Operating Procedures.

The *Contractor* acknowledges that it is fully aware of the requirements of all the above and undertakes to employ only people who have been duly authorised in terms thereof and who have received sufficient safety training to ensure that they can comply therewith.

The *Contractor* undertakes not to do, or not to allow anything to be done which will contravene any of the provisions of the Act, Regulations or Safety and Operating Procedures.

The *Contractor* shall appoint a person who will liaise with the Eskom Safety Officer responsible for the premises relevant to this contract.

Do safety audits at the *Contractor's* premises, its work-places and on its employees;

Refuse any employee, sub-contractor or agent of the *Contractor* access to its premises if such person has been found to commit any unlawful act or any unsafe working practice or is found to be not authorised or qualifies in terms of the Act;

Issue the *Contractor* with a work stop order or a compliance order should Eskom become aware of any unsafe working procedures or conditions or any non-compliance with the Act, Regulations and Procedures referred to in 1 above by the *Contractor* or any of its employees, sub-contractors or agents.

The *Contractors* safety file is to be submitted for approval to Matla's Safety Officer within three (3) days after order placement.

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

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 2003 (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.

5.1.6 Title to materials from demolition and excavation

Not applicable

5.1.7 Cooperating with and obtaining acceptance of Others

The Contractor will have to cooperate with others

5.1.8 Publicity and progress photographs

The taking of photographs at Matla Power Station including the Project works is restricted and subject to the approval by the Project Manager. For the purpose of the Progress Reporting Requirements, the Project Manager may prohibit the taking of such photographs and/or require that all such photographs be taken by the *Employer*. All notice boards, advertising rights and media relations should be published with the approval of the *Employer*.

5.1.9 *Contractor's* Equipment

- The *Contractor* provides all Equipment that is required to complete the works. The *Contractor* shall ensure that all his construction equipment remains within the fenced off in the allocated construction area.
- The *Contractor* shall ensure that any equipment moving outside his allocated construction site does not obstruct the normal operation of the power station. Any additional access routes required must be coordinated with the Project Manager.
- The *Contractor* must keep daily records of his equipment used on Site and the Working areas (distinguishing between owned and hired Equipment) with access to such daily records available for inspection by the Project Manager at all reasonable times.
- All Equipment used by the *Contractor* in providing the works shall comply with the General Machinery Regulation 4 of the Occupational Health and Safety Act (Act 85 of 1993)

5.1.10 Equipment provided by the *Employer*

No Equipment will be supplied by the *Employer*; however, the *Employer* does reserve the right to negotiate with the *Contractor* on the use of different equipment for whatever purpose that may become apparent at the time. The *Contractor* supplies all equipment including cranes, scaffolding and any other equipment for the construction of the works and site establishment

5.1.11 Site services and facilities

Water

Water (Raw water and Fire water) will be made available on request free of charge from tapping points on site. Connection point to be provided by the *Employer*. The *Contractor* is responsible for connection from the tapping points to the *Contractor's* yard. The *Contractor* shall have indicated his request in the Tender. Neither the *Employer* nor the Project Manager shall, however, be bound to approve any revised requirements.

Electricity

All power required for construction and lighting should be provided for by the *contractor*. The *Employer* will not supply electrical power for construction purposes.

5.1.12 Facilities provided by the *Contractor*

Contractor's offices and storage

The *Contractor* shall provide *contractor's* offices to be used by the *Contractor* during the duration of the contract. The yard will be kept clean and tidy at all times, this will include all workshops and storage areas under the control of the *Contractor*. Maintenance of the yard is the *Contractors* responsibility and is for the Project Managers acceptance. Outfall drainage of all surface run-off drains is constructed by the *Contractor* to the acceptance of the Project Manager to minimise erosion and to effect control of contaminated water

Rehabilitation

The *Contractor* is responsible for the rehabilitation of the areas of responsibility including lay down area. Amongst others, this shall include the removal of infrastructure such as offices, workshop areas, storage areas, etc

Ablution Facilities and Refuse

Where required, the *Contractor* shall provide and maintain adequate and suitable sanitized ablution facilities appropriate to the workforce size and work duration that conforms to the requirements of all applicable legislation. The ratio is 1 ablution to 15 employees for each gender. The separate ablution facilities shall be provided for both genders. These portable ablution facilities will be kept tidy and hygienic during the duration of the Project. Where the *Contractor* makes use of existing facilities provided by the project, the *Contractor* shall ensure that their employees support the aim of keeping these facilities clean and hygienic. The *Contractor* is to supply own sanitary facilities. A refuse and sewage control system will be established by the *Contractor*. The *Contractor* submits all safe disposal certificates and waste manifests to the Project Manager.

Accommodation

The *Contractor* **must** provide accommodation, and transportation to and from site for its employees. Transportation must also be provided for local employees.

The *Contractor* shall provide everything required to execute the scope of work as defined in the works information.

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

Not applicable

5.1.14 Survey control and setting out of the *works*

Not applicable

5.1.15 Excavations and associated water control

Not Applicable

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

Not Applicable

5.1.17 Control of noise, dust, water and waste

Noise

The *Contractor* shall conduct Health Risk Assessment to determine noise levels. If the noise level is medium or high, the *Contractor* shall implement control measures.

Dust and Air quality control

The dust shall be managed in such a manner that the *Contractor* complies with Environmental requirements and unnecessary complaints are prevented. The *Contractor* shall provide all the necessary equipment and tools to do dust suppression in their Contractor's laydown areas, surrounding areas and roads as well as in their working areas. The *Contractor* is also responsible for dust suppression on common areas, Eskom areas which are not used exclusively, or primarily by the Contractors. The *Contractor* must also dust suppress on other areas that are affecting his works. Dust suppression measures shall be in place to reduce the dust caused by the movement of construction vehicles and other sources.

Water pollution control

The *Contractor* shall provide the method statement for water pollution control for the approval of the Project Manager. The *Contractor* shall implement appropriate storm water management control measures prior to construction to manage any erosions such as installing of sediment barriers and/or low berms along the downslope edge of cleared areas to trap sediments on site. Design of sediment barriers should be such that expected flow velocities will not damage the barriers or impair their function. Regular cleaning and maintenance of the barriers should be undertaken.

The *Contractor* shall ensure that there is no mix of clean and dirty water. The *Contractor* must inform the PM prior to the abstraction of water from any onsite water bodies.

Waste

For the purpose hereof, "waste" any matter, whether liquid or solid or any combination thereof, which is a by-product, emission, residue or remainder of any process or activity carried out in connection with the works and which is not reused on the Site in the ordinary course of carrying out the works within seven days of production.

The *Contractor* maintains a high standard of cleanliness during the conduct of his activities at Matla Power Station. This includes areas allocated for storage of materials, site offices etc. to the satisfaction of the Project Manager. The *Contractor* keeps these areas clean and free from accumulation of waste materials and refuse regardless of the source. The *Contractor* is responsible for the prompt removal of all waste to a designated disposal area. The disposal area will be on or in the vicinity of the Power Station and be indicated by the Project Manager.

The *Contractor* provides an adequate number of marked bins and containers at offices, in yards, at workshops and on the Site for the temporary storage of waste. These bins and containers are subject to approval by the Project Manager. The *Contractor* is required to segregate certain items of waste by type as designated by the Project Manager. Bins and containers are emptied and waste removed to the designated area at least once a week.

All the temporary storage areas for bins and containers are kept tidy and must not constitute a nuisance to others. The *Contractor* takes all required steps to avoid spillage of waste alongside the bins and containers during removal and disposal thereof. All waste that cannot be contained in either a bin or container is placed on a temporary waste site which the Project Manager identifies. No burning of waste and littering is allowed at the Power Station.

Hazardous waste is dealt with in accordance with the SHE Specification requirements of the works and the *Contractor* is solely responsible for the proper disposal thereof. Hazardous waste will be disposed of at an authorised landfill site. Waste register will be kept for record keeping and handed over at the end of the Project. The *Contractor* notifies the Project Manager of all chemical substances coming to site and keeps an inventory and MSDS of the chemicals.

5.1.18 Sequences of construction or installation

As per approved schedule

5.1.19 Giving notice of work to be covered up

The *Contractor* provides a notice of work to be covered up to the *Supervisor* as per the approved inspection test plans

5.1.20 Hook ups to existing works

The adjacent plant and equipment may not be modified without written permission from the *Project Manager*. The *Contractor* complies with Eskom Life Saving Rules and will report any non-conformance.

5.2 Completion, testing, commissioning and correction of Defects

5.2.1 Work to be done by the Completion Date

Completion will not be achieved until the *Contractor* has successfully completed and handed over all *Works* associated with the contract including the following amongst others;

- *Contractor* Application for Eskom's Inspection of the Works /Part of the Works,
- Data Packs (e.g. Material Certificates, Qualifications, NDT and Welding Documentation, Cutting Instructions, Factory Design Review Reports, etc.)
- Partial/final Inspection certificate,
- Defects Notification Certificate/Clearance,
- Red-lined drawings for engineering approval,
- Testing results,
- Safety and Housekeeping Certificate,
- Completion Certificate,
- Defects Certificate and

On or before the Completion Date the *Contractor* shall have done everything required to Provide the *Works*. The *Project Manager* cannot certify Completion until all the work 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.

5.2.2 Use of the *works* before Completion has been certified

As per the project manager's instruction

5.2.3 Materials facilities and samples for tests and inspections

As per the project manager's instruction

5.2.4 Commissioning

Commissioning of the *Works* will be done before handing over the completed scope of work by the *Contractor*, witnessed and Accepted by the *Employer*

5.2.5 Start-up procedures required to put the *works* into operation

As per scope of work.

5.2.6 Take over procedures

Take over is after or at the same time as Completion. The *Employer* may require the *Contractor* to provide assistance during hand over and data packs to be submitted.

5.2.7 Access given by the *Employer* for correction of Defects

The *Project Manager* arranges 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 applying for a plant to be safe)

5.2.8 Performance tests after Completion

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

5.2.9 Training and technology transfer

Not applicable

5.2.10 Operational maintenance after Completion

Not applicable

6 Plant and Materials standards and workmanship

6.1 Investigation, survey and Site clearance

Not applicable

6.2 Building works

Not applicable

6.3 Civil engineering and structural works

Not applicable

6.4 Electrical & mechanical engineering works

According to the scope of works and the specification

6.5 Process control and IT works

Not applicable

6.6 Other [as required]

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.

PART 4: SITE INFORMATION

Document reference	Title	No of pages
C4	This cover page Site Information	1
Total number of pages		

PART 4: SITE INFORMATION

Core clause 11.2(16) states

“Site Information is information which

- describes the Site and its surroundings and
- is in the documents which the Contract Data states it is in.”

In Contract Data, reference has been made to this Part 4 of the contract for the location of Site Information.

5. General description

The Matla Power Station is situated approximately half way between Bethal and Ogies on the R545, being just over 30 km from each town and 13 km north-west of Kriel town.

6. Existing buildings, structures, and plant & machinery on the Site

The works is within the existing power plant

7. Subsoil information

Not applicable

8. Hidden services

Not applicable

9. Other reports and publicly available information

Not applicable