



## NEC3 Term Service Contract (TSC3)

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

and

for **OIL ANALYSIS AND LUBRICATION SERVICES AT  
GROOTVLEI POWER STATION]**

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**CONTRACT No. [Insert at award stage]**

## PART C1:      AGREEMENTS & CONTRACT DATA

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Contents:	No of pages
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[to be inserted from Returnable Documents at award stage]	
<b>C1.2a Contract Data provided by the <i>Employer</i></b>	<b>[12]</b>
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[to be inserted from Returnable Documents at award stage]	
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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:

### Lubrication service at Grootvlei Power Station

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	The offered total of the Prices exclusive of VAT is	
	Value Added Tax @ 15% is	
	The offered total of the amount due inclusive of VAT is <sup>1</sup>	
	(in words) <b>excluding VAT</b>	

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:

### Acceptance

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

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: Service 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 and signed original copy of this document, including the Schedule of Deviations (if any).

Signature(s)

Name(s)

Capacity

**for the  
Employer**

(Insert name and address of organisation)

Name &  
signature of  
witness

Date

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

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

Note:

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

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

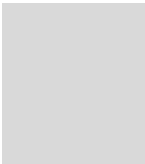


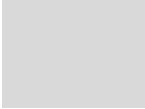
By the duly authorised representatives signing this Schedule of Deviations below, the Employer and the tenderer agree to and accept this Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules,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

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

	For the tenderer:	For the Employer
Signature	_____	_____
Name	_____	_____
Capacity	_____	_____
On behalf of	(Insert name and address of organisation)	(Insert name and address of organisation)
Name & signature of witness	_____	_____
Date	_____	_____

## C1.2 TSC3 Contract Data

### Part one - Data provided by the *Employer*

Clause	Statement	Data
1	<b>General</b>	
	The <i>conditions of contract</i> are the core clauses and the clauses for main Option:	
		A: Priced contract with price list
	dispute resolution Option	W1: Dispute resolution procedure
	and secondary Options	
		X1 : Price Adjustment for inflation
		X2 : Changes in the law
		X17: Low service damages
		X18: Limitation of liability
		X19: Task Order
	of the NEC3 Term Service Contract April 2013 <sup>2</sup> (TSC3)	
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
	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	Tel No.	011 800 8111
	Fax No.	
10.1	The <i>Service Manager</i> is (name):	Nomonde Sithole
	Address	Private Bag X, Grootvlei, 2420

<sup>2</sup> Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 539 1902 [www.ecs.co.za](http://www.ecs.co.za)

Tel	017779 8648
Fax	[]
e-mail	sitholnd@eskom.co.za

11.2(2)	The Affected Property is	Grootvlei Power Station
11.2(13)	The <i>service</i> is	Oil Analysis and Lubrication services at Grootvlei power station
11.2(14)	The following matters will be included in the Risk Register	To be discussed in the kick off meeting
11.2(15)	The Service Information is in	Part 3: Scope of Work and all documents and drawings to which it makes reference.
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa
13.1	The <i>language of this contract</i> is	English
13.3	The <i>period for reply</i> is	[1] week
2	<b>The Contractor's main responsibilities</b>	Data required by this section of the core clauses is also provided by the <i>Contractor</i> in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data
21.1	The <i>Contractor</i> submits a first plan for acceptance within	[1] week of the Contract Date
3	<b>Time</b>	
30.1	The <i>starting date</i> is.	To be confirmed
30.1	The <i>service period</i> is	[ 60 Months]
4	<b>Testing and defects</b>	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
5	<b>Payment</b>	
50.1	The <i>assessment interval</i> is	between the [25 <sup>th</sup> ] day 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	[4] weeks.
51.4	The <i>interest rate</i> is	the publicly quoted prime rate of interest (calculated on a 365 day year) charged by 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  (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 *mutatis mutandis* 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.

6	<b>Compensation events</b>	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
7	<b>Use of Equipment Plant and Materials</b>	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
8	<b>Risks and insurance</b>	
80.1	These are additional <i>Employer's</i> risks	<p>1. Claims, proceedings, compensation, and costs payable which are due to:</p> <p>a) <b>Use or occupation of the site by the works or for the purpose of the works which is the unavoidable result of the works</b></p> <p>2. <b>Negligence, breach of statutory duty or interference with any legal right by the <i>Employer</i> or by any person employed by or contracted to him except the <i>Contractor</i> or</b></p> <p>3. <b>Loss of or damage to plant and materials supplied to the contractor by the <i>Employer</i> or by Others on behalf of the <i>Employer</i>, until the <i>Contractor</i> has received and accepted them</b></p>
83.1	The <i>Employer</i> provides these insurances from the Insurance Table	<b>as stated for “Format TSC3” available on <a href="http://www.eskom.co.za/Tenders/InsurancePolicies/Procedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx">http://www.eskom.co.za/Tenders/InsurancePolicies/Procedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx</a> (See Annexure A for basic guidance).</b>
83.1	The <i>Employer</i> provides these additional insurances	<b>as stated for “Format TSC3” available on <a href="http://www.eskom.co.za/Tenders/InsurancePolicies/Procedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx">http://www.eskom.co.za/Tenders/InsurancePolicies/Procedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx</a> (See Annexure A for basic guidance)</b>
83.1	The <i>Contractor</i> provides these additional insurances:	<b>[•]</b>
83.1	The minimum amount of cover for insurance against loss and damage	<b>the amount of the deductibles relevant to the event described in the “Format TSC3”</b>



	caused by the <i>Contractor</i> to the <i>Employer's</i> property is	<b>insurance policy available on</b> <i>http://www.eskom.co.za/Tenders/InsurancePolicies/Procedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx</i>
83.1	The insurance against loss of or damage to the <i>works</i> , Plant and Materials is to include cover for Plant and Materials provided by the <i>Employer</i> for an amount of	[•]
83.1	The minimum amount of cover for insurance in respect of loss of or damage to property (except the <i>Employer's</i> property, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Contractor</i> ) arising from or in connection with the <i>Contractor's</i> Providing the Service for any one event is:	<b>whatever the <i>Contractor</i> deems necessary in addition to that provided by the <i>Employer</i>.</b>
83.1	The minimum limit of indemnity for insurance in respect of death of or bodily injury to employees of the <i>Contractor</i> arising out of and in the course of their employment in connection with this contract for any one event is:	<b>As prescribed by the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 and the <i>Contractor's</i> common law liability for people falling outside the scope of the Act with a limit of Indemnity of not less than R500 000 (Five hundred thousand Rands).</b>
<b>9</b>	<b>Termination</b>	<b>There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.</b>
<b>10</b>	<b>Data for main Option clause</b>	
<b>A</b>	<b>Priced contract with price list</b>	
20.5	The <i>Contractor</i> prepares forecasts of the final total of the Prices for the whole of the service at intervals no longer than	<b>[4]weeks.</b>
11	Data for Option W1	<b>Contractor's share %-age</b>
W1.1	The <i>Adjudicator</i>	
		<b>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 <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a>). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).</b>

Address

[ESKOM HOLDINGS  
MEGAWATT]

Tel No.

[011 800 3709]

Fax No.

e-mail

Marika.vdHeever@eskom.co.za

W1.2(3) The *Adjudicator nominating body* is:

the Chairman of ICE-SA a joint Division of the South African Institution of Civil Engineering and the Institution of Civil Engineers (London) (see [www.ice-sa.org.za](http://www.ice-sa.org.za)) or its successor body.

W1.4(2) The *tribunal* is:

arbitration

W1.4(5) The *arbitration procedure* is

the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.

**The place where arbitration is to be held is**

South Africa

The person or organisation who will choose an arbitrator

- if the Parties cannot agree a choice or if the arbitration procedure does not state who selects an arbitrator, is

the Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.

12 Data for secondary Option clauses

**X1 Price adjustment for inflation CPA**

**X2 Changes in the law**

**X17 Low service damages**

Criteria	Weight	Unit	target	penalty 3%	penalty 5%	penalty 10%
Weekly Lubricant stock take	15%	No	4	3	2	1
Outstanding/Non-Compliant Work Order PM'S and CM's	20%	No	0	1	3	5
Non-Conformance report issued to Contractor	10%	No	0	1	2	3
Morning Meeting attendance	15%	No	12	10	8	6
Call outs response	25%	Hrs	1Hr	1hrs-2hrs	2hrs-3hrs	4hrs-5hrs

Sheq Audit findings	15%	No	0	1	2	3
X18	<b>Limitation of liability</b>					
X18.1	The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to					
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					
X18.3	The <i>Contractor's</i> liability for Defects due to his design of an item of Equipment is limited to					
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 the excluded matters, is limited to					
X18.5	The <i>end of liability date</i> is					
X19	<b>Task Order</b>					
X19.5	The <i>Contractor</i> submits a Task Order programme to the <i>Service Manager</i> within					
Z	<b>The <i>additional conditions of contract</i> are</b>					

**R0.0 (zero Rand)**

**the amount of the deductibles relevant to the event described in the "Format TSC3" insurance policy available on**  
[http://www.eskom.co.za/Tenders/InsurancePoliciesProcedures/Pages/EIMS\\_Policies\\_From\\_1\\_April\\_2014\\_To\\_31\\_March\\_2015.aspx](http://www.eskom.co.za/Tenders/InsurancePoliciesProcedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx)

**The greater of**

- the total of the Prices at the Contract Date and
- the amounts excluded and unrecoverable from the *Employer's* insurance (other than the resulting physical damage to the *Employer's* property which is not excluded) plus the applicable deductibles in the *Employer's* assets and works / maintenance policies available on  
[http://www.eskom.co.za/Tenders/InsurancePoliciesProcedures/Pages/EIMS\\_Policies\\_From\\_1\\_April\\_2014\\_To\\_31\\_March\\_2015.aspx](http://www.eskom.co.za/Tenders/InsurancePoliciesProcedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx)

**the total of the Prices other than for the additional excluded matters.**

**The *Contractor's* total liability for the additional excluded matters is not limited.**

**The additional excluded matters are amounts for which the *Contractor* is liable under this contract for**

- Defects due to his design, plan and specification,
- Defects due to manufacture and fabrication outside the Affected Property,
- loss of or damage to property (other than the *Employer's* property, Plant and Materials),
- death of or injury to a person and infringement of an intellectual property right.

**12 months after the end of the *service period*.**

**[3] days of receiving the Task Order**

**Z1 to Z11 always apply.**

<b>Z1</b>	
Z1.1	<b>Cession delegation and assignment</b>
	<p>The <i>Contractor</i> does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the <i>Employer</i>.</p> <ul style="list-style-type: none"> <li></li> </ul>
Z1.1	<p>Notwithstanding the above, the <i>Employer</i> may on written notice to the <i>Contractor</i> cede and delegate its rights and obligations under this contract to any of its subsidiaries or any of its present divisions or operations which may be converted into separate legal entities as a result of the restructuring of the Electricity Supply Industry.</p>
Z1.2	
	<p><b>Joint ventures</b></p> <p>If the <i>Contractor</i> constitutes a joint venture, consortium or other unincorporated grouping of two or more persons or organisations then these persons or organisations are deemed to be jointly and severally liable to the <i>Employer</i> for the performance of this contract.</p>
<b>Z2</b>	
Z2.1	<p>Unless already notified to the <i>Employer</i>, the persons or organisations notify the <i>Service Manager</i> within two weeks of the Contract Date of the key person who has the authority to bind the <i>Contractor</i> on their behalf.</p>
Z2.2	<p>The <i>Contractor</i> does not alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without the consent of the <i>Employer</i> having been given to the <i>Contractor</i> in writing.</p>
Z2.3	
	<b>Change of Broad Based Black Economic Empowerment (B-BBEE) status</b>
<b>Z3</b>	<p>Where a change in the <i>Contractor's</i> legal status, ownership or any other change to his business composition or business dealings results in a change to the <i>Contractor's</i> B-BBEE status, the <i>Contractor</i> notifies the <i>Employer</i> within seven days of the change.</p>
Z3.1	<p>The <i>Contractor</i> is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the <i>Service Manager</i> within thirty days of the notification or as otherwise instructed by the <i>Service Manager</i>.</p>
Z3.2	<p>Where, as a result, the <i>Contractor's</i> B-BBEE status has decreased since the Contract Date the <i>Employer</i> may either re-negotiate this contract or alternatively, terminate the <i>Contractor's</i> obligation to Provide the Service.</p>

- Z3.3 Failure by the *Contractor* to notify the *Employer* of a change in its B-BBEE status may constitute a reason for termination. If the *Employer* terminates in terms of this clause, the procedures on termination are P1, P2 and P4 as stated in clause 92, and the amount due is A1 and A3 as stated in clause 93.

Z3.4

#### **Confidentiality**

- Z4** 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.

- Z4.1 If the *Contractor* is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the *Service Manager*.

- Z4.2 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.

- Z4.3 The taking of images (whether photographs, video footage or otherwise) of the Affected Property or any portion thereof, in the course of Providing the Service and after the end of the *service period*, requires the prior written consent of the *Service Manager*. All rights in and to all such images vests exclusively in the *Employer*.

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

Z4.5

#### **Waiver and estoppel: Add to core clause 12.3:**

- Z5** Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, the *Service Manager* 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.

Z5.1

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

- Z6** The *Contractor* undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the execution of the *service*. 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 Affected Property;
- 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 the *service*; and undertakes, in and about the execution of the *service*, 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.

- Z6.1 • The *Contractor*, in and about the execution of the *service*, 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.

Z6.2

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

- Z7 Within one week of receiving a payment certificate from the *Service 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 Service Information, showing the amount due for payment equal to that stated in the payment certificate.

- Z7.1 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.

- Z7.2 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.

Z7.3

**Notifying compensation events**

Delete the last paragraph of core clause 61.3 and replace with:

Z8

If the *Contractor* does not notify a compensation event within eight weeks of becoming aware of the event, he is not entitled to a change in the Prices.

Z8.1 •

***Employer's limitation of liability***

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

- Z9.1 The *Contractor's* entitlement under the indemnity in 82.1 is provided for in 60.1(12) and the *Employer's* liability under the indemnity is limited to compensation as provided for in core clause 63 and X19.11 if Option X19 Task Order applies to this contract.

Z9.2

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

- Z10 Or had a business rescue order granted against it.

Z10.1

**Ethics**

Z11

- Z11.1 Any offer, payment, consideration, or benefit of any kind made by the *Contractor*, which constitutes or could be construed either directly or indirectly as an illegal or corrupt practice, as an inducement or reward for the award or in execution of this contract constitutes grounds for terminating the *Contractor's* obligation to Provide the Service or taking any other action as appropriate against the *Contractor* (including civil or criminal action).

- Z11.2 The Employer may terminate the Contractor's obligation to Provide the Service if the Contractor (or any member of the Contractor where the Contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons or organisations) is found guilty by a competent court, administrative or regulatory body of participating in illegal or corrupt practices.
- Such practices include making of offers, payments, considerations, or benefits of any kind or otherwise, whether in connection with any procurement process or contract with the Employer or other people or organisations and including in circumstances where the Contractor or any such member is removed from the an approved vendor data base of the Employer as a consequence of such practice.
- Z11.3 Notwithstanding the provisions of core clause 90.2, the procedures on termination in terms of this clause are P1, P2 and P4 as stated in the core clause 92 and the amount due is A1 and A3 as stated in core clause 93.

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 <i>Contractor</i> 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 <i>Contractor</i> , or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractors 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.

- Z 11.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.
- Z 11.2 The *Employer* may terminate the *Contractor's* obligation to Provide the Service 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 Service for this reason.
- Z 11.3 If the *Employer* terminates the *Contractor's* obligation to Provide the Service for this reason, the procedures and amounts due on termination are respectively P1, P2, P3 and P4, and A1 and A3.
- Z 11.4 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.

#### **Supplier development and localisation.**

The supplier will employ local people and develop an analyst from Dipaleseng municipality or outside Dipaleseng if he cannot find someone from local municipality.

#### **Skills Development**

Suppliers shall develop the following skills as a direct result of this contract.

Skills Type	Proposed by Eskom	Proposed by Tenderer
Analyst	1	1

Skills candidates shall be currently unemployed graduates from TVET (Technical, Vocational, Education and Training) colleges and matriculates. These candidates shall also be representative of the population demographics of South Africa.



## Annexure A: Insurance provided by the Employer

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

1. Services provided in a TSC3 contract could include some element of construction or refurbishment as well as a continuous maintenance or operational service activity. If an event occurs which causes loss or damage, a claim could be made either against the *Employer's* "works" type policy which may be in place for the *Employer's* portion of the Affected Property concerned or against the *Employer's* assets policy which may be in place for the *Employer's* portion of the Affected Property concerned, or both.
2. The cover provided and the deductibles under the works policy are different to those under the assets policy. Each policy has a range of applicable deductibles depending on the location of the Affected Property and the nature of the insurable event.
3. The *Contractor* is required in terms of Contract Data for clause 83 to provide cover for the deductibles in the insurance provided by the *Employer*. This can be provided from his own resources on a 'self insured' basis or obtained by him from his own insurers. In order to assess the extent of this cover, tendering contractors and their brokers should consult the internet web link given below and scroll to '**Format TSC3**' to establish both the cover and the deductibles in relation to the *service* provided in terms of this contract.
4. Tendering contractors should note that cover provided by the *Employer* is only per the policies available on the internet web link listed below and may not be the cover required by the tendering contractor or as intended by each of the listed insurances in the left hand column of the Insurance Table in clause 83.2. In terms of clause 83.1 "the *Contractor* provides the insurances stated in the Insurance Table except any insurance which the *Employer* is to provide". Hence the *Contractor* provides insurance which the *Employer* does not provide and in cases where the *Employer* does provide insurance the *Contractor* insures for the difference between what the Insurance Table requires and what the *Employer* provides.
5. If Marine Insurance is required the *Contractor* needs to obtain a copy of the latest edition of Eskom's Marine Policies Procedures found at internet website given below.
6. Further information and full details of all Eskom provided policies and procedures may be obtained from:

[http://www.eskom.co.za/Tenders/InsurancePoliciesProcedures/Pages/EIMS\\_Policies\\_From\\_1\\_April\\_2014\\_To\\_31\\_March\\_2015.aspx](http://www.eskom.co.za/Tenders/InsurancePoliciesProcedures/Pages/EIMS_Policies_From_1_April_2014_To_31_March_2015.aspx)

## C1.2 Contract Data

### Part two - Data provided by the *Contractor*

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

Whenever a cell is shaded in the left hand column it denotes this data is optional and would be required in relation to the option selected. In the event that the option is not required select and delete the whole row.]

**Notes to a tendering contractor:**

1. Please read both the both the NEC3 Term Service Contract April 2013 and the relevant parts of its Guidance Notes (TSC3-GN)<sup>3</sup> in order to understand the implications of this Data which the tenderer is required to complete.
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.

Clause	Statement	Data
10.1	The <i>Contractor</i> is (Name):  Address  Tel No.  Fax No.	
11.2(8)	The <i>direct fee percentage</i> is	%
	The <i>subcontracted fee percentage</i> is	%
11.2(14)	The following matters will be included in the Risk Register	
11.2(15)	The Service Information for the <i>Contractor's</i> plan is in:	
21.1	The plan identified in the Contract Data is contained in:	
24.1	The key people are:  1 Name:  Job:  Responsibilities:  Qualifications:  Experience:  2 Name:	

<sup>3</sup> Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 5391902 or [www.ecs.co.za](http://www.ecs.co.za)

Job

Responsibilities:

Qualifications:

Experience:

CV's (and further key person's data including CVs) are in .

A	Priced contract with price list		
11.2(12)	The <i>price list</i> is in		
11.2(19)	The tendered total of the Prices is	R	

## C2.1 the *price list*

<b>GROOTVLEI POWER STATION</b>
<b>Project: Provision of Lubrication Services at Grootvlei Power Station</b>
<b>Quantity Surveyor Estimate</b>

Item	Description	Unit	Quantity	Hours Expected	Rate	Total	No. of years	Total for 5 years
	<b><u>Section 1</u></b>							
	-							
1	Site Establishment (Once off)	sum	1			-	1.00	-
2	Site De-Establishment (Once off)	sum	1			-	1.00	-
3	Stationery and printing	monthly	1			-	60.00	-
4	Telephone	monthly	1			-	60.00	-
5	Personal Protective equipment (once a year)	sum	9			-	5.00	-
6	System, sotware & support	monthly	1			-	60.00	-
7	Site vehicle for travelling	monthly	1			-	60.00	-
8	safety file ( Once off)	sum	1			-	1.00	-
9	Medicals (Once a year)	sum	9			-	5.00	-
10	Lubrication tools & maintenance	sum	1			-	1.00	-
11	Transport allowance	monthly	9			-	60.00	-
	<b>Sub Total</b>							-
Item	Description	Unit	Quantity	Hours Expected	Rate	Total	No. of years	Total for 5 years
	<b><u>Section 2</u></b>							
	<b><u>Normal Hours</u></b>							
1	Site Manager	Hr	1	173		-	60.00	-

2	Site Supervisor	Hr	1	173		-	60.00	-
3	Lube Technician	Hr	3	173		-	60.00	-
4	Lube Assistant	Hr	3	173		-	60.00	-
5	Tribologist	Hr	1	173		-	60.00	-
	<b>Sub Total</b>							-
<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Hours Expected</b>	<b>Rate</b>	<b>Total</b>	<b>No. of years</b>	<b>Total for 5 years</b>
	<b><u>Section 3</u></b>							
	-							
	<b><u>Overtime - Weekly and Saturdays</u></b>							
1	Site Supervisor	Hr	1	10		-	60.00	-
2	Lube Technician	Hr	1	30		-	60.00	-
3	Lube Assistant	Hr	1	30		-	60.00	-
4	Tribologist	hr	1	10		-	60.00	-
	<b><u>Overtime - Sunday &amp; Public Holidays</u></b>							
5	Site Supervisor	Hr	1	5		-	60.00	-
6	Lube Technician	Hr	1	15		-	60.00	-
7	Lube Assistant	Hr	1	15		-	60.00	-
8	Tribologist	Hr	1	5		-	60.00	-
	<b>Sub -Total</b>							-
<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Hours Expected</b>	<b>Rate</b>	<b>Total</b>	<b>No. of years</b>	<b>Total for 5 years</b>
	<b><u>Section4</u></b>							
	<b>Standard oil samples</b>	<b>each</b>	150			-	60.00	-
	<b>Sub Total</b>							-
	<b>Total</b>							

The total of the Prices

**Note: Lubricant equipment maintenance are added under section1, Oil sampling and oil analysis under section**

Equipment / Asset	Description
1	One Seater Office Desk
2	One Seater Office Desk
3	Office Chair
4	Office Chair
5	Office Chair
6	Office Chair
7	Office Chair
8	Office Chair
9	Office Chair
10	Office laptop
11	Office laptop
12	Office window screen
13	Office keyboard
14	Office desktop
15	Office printer / copying machine
16	Wireless N 4G LTE Router
17	Kettle
18	Water boiler
19	Cup Board
20	Locker
21	Locker
22	Microwave oven
23	Foot Operated Greaser
24	Foot Operated Greaser
25	210 Drum Trolley - 4 Wheel
26	1:1 Pneumatic Drum Pump
27	1:1 Pneumatic Drum Pump
28	1:1 Pneumatic Drum Pump
29	1:1 Pneumatic Drum Pump
30	1:1 Pneumatic Drum Pump
31	1:1 Pneumatic Drum Pump
32	1:1 Pneumatic Drum Pump
33	1:1 Pneumatic Drum Pump
34	Cylinder
35	Cylinder
36	Cylinder
37	Cylinder
38	Cylinder
39	Cylinder
40	Cylinder
41	Cylinder
42	Drum trolley
43	Fridge
44	Hand operated greaser
45	Hand operated greaser
46	Hand operated greaser
47	Hand pump
48	Foot Operated Greaser
49	Foot Operated Greaser
50	Foot Operated Greaser
51	<b>Oil decanting trolley</b>
	1.1 Decanting hose
	1.2 Pump roper
	1.3 Pump motor wedge
	1.4 Filter
	1.5 Nozzle
	1.6 4wheel trolley
	1.7 Mechanical meter

Breakdown of

lubricant equipment and assets

52	<b>Oil draining trolley</b>
	1.1 Decanting hose
	1.2 Pump roper
	1.3 Pump motor wedge
	1.4 Nozzle
	1.5 4wheel trolley
	1.6 Mechanical meter
53	Hand pump
54	Drum trolley
55	Extension cord 40m
56	Extension cord 10m
57	Extension cord 10m
58	Drum trolley
59	Foot Operated Greaser
60	Cord
61	Hoses x 10

#### Software's package

1. Outlook		
2. Microsoft teams		
3. Microsoft		
4. wifi network software		



**Stationary**

1 Pens			
2. Black permanent marker			
3. Coloured white board marker			
4. Files			
5. File separator			
6. Type pek paper for the printer			
7. Inks for the printer			
8. Paper puncher, the small and bigger.			
9. Paper Stabler and staples, small and b			
10. Staples remover			
11. Paper clip boards			
12. Scissors			
13. Paper clips			
14. 2 quair hard cover books			
15. Note hard cover books.			
16. Straight ruler			
17. Calculator			
18. Sticky notes papers			
19. Prestik			
20. Glue stick for paper			
21. Till rolls			
22. Sellotape			
23. Coloured paper cube refill & Note pap			
24. Assorted combo –			
Code 1808420			
40pcs rubber bands			
80pcs push pins.			
100pcs 28MM colour paper clips			
15pcs 19MM colour blend clips			
Assorted colours			

## PART 3: SCOPE OF WORK

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

## C3.1: EMPLOYER'S SERVICE INFORMATION

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Otherwise insert list of contents manually.

## C3.1: EMPLOYER'S SERVICE INFORMATION

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## 1 Description of the service

### 1.1 Executive overview

Provision of routine and **Adhoc Lubrication** and Oil analysis service at Grootvlei Power Station as specified below:

- Oil Sampling and Analysis
- Greasing and analysis
- Oil Lube Checks

This service shall cover all the Grootvlei Power Station plants scope of work as detailed on Annexure A.

### 1.2 Employer's requirements for the service

The contractor shall provide routine Lubrication and Oil analysis services as detailed on Annexure A.

#### **A. Fixed Services:**

- Continuous assessment and improvement of Lubrication and Oil analysis programs, measurement techniques, analysis of data, reports etc.
- Capturing and trending of information on problematic plant, Employer shall get a copy of database where all results are stored.
- Providing Maintenance and Engineering solutions and recommendations.
- Reporting serious plant problems immediately to Engineering, Maintenance and Operating.
- Providing a monthly Tribology and reports as detailed on Annexure A.
- Providing Lubrication and Oil analysis reports within five working days from data collection.
- Performing follow up test on the maintained plant as part of commissioning of these plants listed on Annexure A.
- Reviewing and discussing monthly reports and recommendation with clients.
- Providing a 3 monthly management report with combined Lubrication and Oil analysis matrix that shows all Lubrication and Oil analysis done per plant as detailed on Annexure A.

#### **B. On-Demand Services or Call-Outs:**

The contractor shall provide the detailed services on annexure A on request by the employer at any time for any of the following purposes:

- To return equipment to service after plant breakdown or plant opportunity maintenance.
- Support investigations.

The On-Demand Services or Call-Outs shall be provided by the contractor on request by the employer at no extra cost provided the services will be performed within the normal working hours

The On-Demand Services or Call-Outs shall be provided by the contractor on request by the employer at agreed rates of the called out personnel provided the services will be performed outside the normal working hours. Once agreed the following should be in place:

- The Contractor shall provide standby duties. A standby roster shall be signed by both the Employer and the Contractor and then distributed to relevant departments.
- The Contractor shall be paid per hour on work done when on standby. Thus a minimum of one hour will be applicable.
- A standby allowance shall be paid to the Contractors labourers when on standby, except for the site manager.
- If the Contractor is called out to come to work, he/she will fill in a callout form in detail he/she will take the form to the relevant stakeholders for signature. The Contractor then hands over the form to the Employer on the next working day.
- The response time for all call - outs shall not be more than 60 minutes.

### C. Reporting

The contractor shall provide reports that comply with the following standard:

- Eskom GGL 36 - 53 Rev 0, for oil and lubricating fluids (IN-SERVICE MONITORING OF LUBRICATING OILS AND HYDRAULIC FLUIDS)
- If it happens that one of the personnel is off site on leave or any other reason, the Contractor shall ensure that there is a replacement or someone who will cover those employees' duties at no additional cost to the Employer.
- The Employer shall be informed of any dispute, hiring and firing of onsite employees.
- The Contractor shall support Grootvlei Power Station drive to employ local labour, by employing a minimum of 50% of local labour (Dipaleseng municipality) for lube assistants.
- The Contractor shall under no circumstances be allowed to recruit labourer(s) at Eskom Grootvlei Power Station's main security gate.
- The Contractor will be responsible for implementing a performance management system consistent with Eskom's supplier management requirements.
- The KPA's, KPI's and Metrics required will be jointly agreed by Eskom Grootvlei and the typical KPI's could include:
  - Compliance to the planned maintenance program.
  - Compliance to oil sampling
  - Value of savings identified.
  - Safety related KPI's (e.g. DIIR).
  - Number of lubricant and lubrication related failures.
  - Incoming product quality KPI's.

The type of reports, level of detail and frequency of reporting will be mutually agreed by Eskom Grootvlei and the supplier during the contract negotiation phase of this agreement. These can be changed from time to time to suit the nature of the contract.

An asset register will be compiled by both the Employer and the Contractor stating all the assets that are on site purchased by the Contractor. The asset register will be approved by the Employer and will be used as a register to allow the Contractor to remove the assets when the Contractor's services are no longer required by the Employer.

The contractor shall conduct an in depth analysis to all failures of plant that is included in the works information, and a detailed report shall be compiled and submitted to the employer.

The contractor shall ensure that the findings in the analysed data shall be supported by relevant plots in the report.

### D. Tribology (Oil Analysis)

- The contractor shall conduct oil analysis in compliance with standard Eskom 36-53 Rev 0, for oil and lubricating fluids (IN-SERVICE MONITORING OF LUBRICATING OILS AND HYDRAULIC FLUIDS).
- The contractor shall be responsible for taking oil samples full analysis at an accredited lab, which will be based on the 150 samples Quota taken monthly.
- The contractor shall monitor and conduct oil analysis in all machines detailed on annexure A and as per special request by the Employer as and when required, Note this special service, in terms of equipment and machines to be used to do analysis that shall be provided by the employer, contractors involvement will be collecting, analysing and release report.

- The Contractor shall be responsible for the development and implementation of an oil analysis program that is consistent with Eskom standards and compliant with good practices. Eskom will approve the final oil analysis program before implementation. The supplier will consult with Eskom engineers to establish which equipment is included and the frequency of oil analysis.
- The Contractor will be responsible for identifying correct sampling points and providing Eskom with a list of requirements for additional sample point installations.
- The Contractor shall provide a suitable software system that can maintain the oil analysis program including trend analysis and reporting. Reports must be made available to responsible site engineers in a suitable format on time and in time for remedial action if required.
- The Contractor shall be responsible for taking oil samples on a regular basis as required by the oil analysis program and the contractor shall be responsible for taking oil sample to the lab for full analysis month to month and the quota limited to 150 samples per month.

#### **E. Total Fluid Management**

- The Contractor shall be responsible for total fluid management (oils and grease) at Grootvlei Power Station and Vaal Dam; also lubricants shall meet both the Employer and the original equipment manufacturer (OEM) requirements where applicable. Plant will only form part of the works once it has been handed over to Generation.
- The Employer will review the contract after twelve (12) months and reserve the rights to reduce or add the number of people, based on actual scope requirements or to terminate the contract if the service is no longer required.
- Boiler Plant: Milling Plant, Draught Plant, Soot blowers, Air & Gas Dampers
- Turbine Plant: CEP's, Main Oil Tanks, EFP's,
- Common Plant: Conveyor Belts, Gearboxes, Buffalo Feeder, Motor Drive Gearings, Sluice Pumps, Ash Pumps, Seal Water Pumps, Ash Crushers, AWR Pumps,
- Vaal Dam: High Lift Pumps
- See Annexure A for detailed scope of work

**NOTE: Oil sampling on turbine MOT doesn't require full analysis thus is not detailed on annexure A, therefore this will be done onsite for particle count and water content and doesn't comprise the 150 samples to be taken to the lab.**

#### **F. Lubricant Storage and Handling**

- The Employer will purchase the consignment stock, the stock will be kept at the oil stores
- The Employer will make available suitable secured premises on site that can be used for lubricants.
- The lubricant store design, layout and equipment installation will be the responsibility of the Contractor, subject to the Employer's approval in terms of SHE compliance and suitability for use.
- The Contractor shall provide containers, dispensing equipment, transfer pumps, safety equipment, funnels, hoses, etc. necessary to equip, operate and manage the lubricant storage and dispensing facility.
- The Contractor shall be responsible to fill up all the bulk tanks.
- Any permanent installation of any tanks will be subject to the Employer's approval.
- The Contractor shall be responsible for housekeeping in the lubricant storage and dispensing area.

#### **G. Lubricant Selection**

- The Contractor will carry out a detailed lubricant survey of the power station including the common plant. The lubricant survey will include a list of all lubrication items, plant and equipment and the recommended lubrication for each item. The lubricants recommended must meet Eskom and OEM requirements. Eskom will approve the lubricant survey for implementation.



- An electronic copy of the previous lubricant survey is available on request. Note that the survey does not include equipment replaced or upgraded during the refurbishment program to return the power station to service.
- The lubricant survey must be updated to reflect product changes and specification changes.
- The Contractor will assist Eskom in identifying suitable lubricants for applications for which the supplier has no suitable lubricant available.
- The Contractor must ensure that all the lubricants are compatible with the equipment to be lubricated.
- The Contractor must implement a lubricant rationalisation and consolidation strategy consistent with the equipment requirements. The strategy should rationalise lubricant types and package sizes.

#### **H. Eskom Lubricant Standards**

- A list of Eskom lubricant performance specifications and guidelines that will form an integral part of the lubricant supply and oil condition monitoring contract is listed in the tables attached. Copies of relevant Eskom performance standards can be made available.
- The following additional documents are attached and forms part of this contract:
  - GGSS 1181 – Specification for chemical product and material used in a power plant
  - GGA 1182 – Control of chemical products in a power station
  - GGPP 1065 – Power plant chemistry policy
  - Chemical restriction and control document illustrating banned products
  - GVLIR 0007 – Safety Health and Environmental Specifications for Contractor.

#### **I. Lubricant Related Maintenance**

- The Contractor shall be responsible for assisting Eskom in the development of the lubrication preventative maintenance program. Such assistance will include the development of work instructions, lubrication frequencies and monitoring and inspection requirements.
- The Contractor will be responsible for the implementation of a fluid contamination control maintenance program including the setting of suitable contamination.
- The Contractor should be able to provide a suitable software-based maintenance management system with the capability to plan and manage maintenance tasks. The software must have the capability to produce management reports and information with respect to lubricant and lubrication costs and usage, inventory management, condition monitoring scheduling and failure tracking. The Employer reserves the right to manage the program within the SAP R3 maintenance management software on site with suppliers being granted limited access to the system.
- The Contractor shall be responsible for carrying out maintenance tasks such as oil system top ups, greasing, lubricant system flushing and fluid maintenance tasks such as external filtration and oil analysis when required.
- Lubricant procedures consistent with the best practice must be available in an accessible format on-site for all lubrication tasks to be performed.
- To ensure that the correct lubricant is used for the correct plant equipment the Contractor will be required to update the existing lubricant survey, the lube survey will contain all lubricated plant equipment with full description and plant code and the relevant lubricant to be used.
- The survey should include but not limited to the following:
  - Verification of the original survey.
  - Critical equipment
  - Lubrication requirements that will be based on a schedule.

#### **J. Continuous Improvement**

- The Contractor shall implement a program of continuous improvement to optimise lubricant performance and reduce lubricated system and equipment failure rates.
- The Contractor will be responsible for participating in root cause failure investigations as required by Eskom.
- The Contractor will participate in improvement programs pertaining to lubricated equipment

any lubricant performance testing for product changes and upgrades must be approved via Eskom's change management processes as implemented at Grootvlei.

#### K. Waste Management

- Contractor will collect oil from equipment and move to Eskom hazardous yard the Employer will then to discard the hazardous waste.
- All lubricant related waste management must comply with legislation applicable to the Grootvlei Power Station and may be audited from time to time by Eskom.

#### L. Lubrication Equipment in the plant area

- The Contractor will be responsible for the selection, procurement and maintenance of lubricant dispensing equipment required for executing the program.
- The Contractor will be responsible for the provision of all sampling equipment required for the oil analysis program.
- The Contractor will be responsible to provide a site vehicle; the site vehicle shall be used for transporting lubricants, standby purposes and other logistics items/activities as required around the power station and at Vaal dam.
- The Employer will provide a forklift if the need arises.

#### M. Findings

The contractor shall load defects and prioritise accordingly on all findings on flip system and the notification number shall be included on the report for tracking purposes.

### 1.3 Interpretation and terminology

The following abbreviations are used in this Service Information:

Abbreviation	Meaning given to the abbreviation
OBL	Outside battery limits
PM	Planned Maintenance Task
KPI	Key Performance Indicator
B-BBEE	Broad Based Black Economic Empowerment
CPP	Condensate Polishing Plant
CM	Condition Monitoring
FRF	Fire Resistant Fluid
EFP	Electric Feed Pump
FD	Forced Draft
ID	Induced Draft
CPP	Condensate Polishing Plant
LAN	Local Area Network
LH	Left-hand

RH	Right-hand
CEP	Condensate Extraction Pump
PA	Primary Air
SSC	Submersible Scraper Conveyor
SOW HP	Scope of Work High Pressure

## 2 Management strategy and start up.

### 2.1 The *Contractor's* plan for the *service*

- The contractor shall provide the methods of carrying out of all services as described in section 1.1.
- The work schedule shall be issued by the employer to the contractor.

The contractor shall ensure that as a minimum the following is incorporated into the *Contractor's* plan.

- Tribology reports shall be submitted to the employer by the contractor as per annexure A frequency.
- Lubrication and oil top up report shall be submitted to the employer every month as per annexure A frequency

### 2.2 Management meetings

The contractor and employer shall use the techniques of partnering to manage the contract by holding meetings designed to pro-actively and jointly manage the administration of the contract with the objective of minimising the adverse effects of risks and surprises for both Parties.

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

Title and purpose	Approximate time & Interval	Location	Attendance by:
Risk register and compensation events	Monthly	Grootvlei Power Station	<i>Employer, Contractor</i>
Overall contract progress and feedback	3 Monthly	Grootvlei Power Station	<i>Employer, Contractor</i>
Adhoc Meetings	As and when required	Grootvlei Power Station	<i>Employer, Contractor</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Service Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the *service*. Records of these meetings shall be submitted to the *Service 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.

## **2.3 Contractor's management, supervision and key people**

The *Contractor* shall provide an organogram showing his people and their lines of authority / communication  
The contractor shall show state the list of key people and roles and responsibility.

## **2.4 Documentation control**

The documentation will be identified with an alpha numeric which indicates source, recipient, communication number etc.

All contractual communications shall be in the form of properly compiled letters or forms attached to e mails and not as a message in the email itself. State any particular routing requirements but note from TSC3 who issues what to whom.

## **2.6 Contract change management**

Any additional requirement to the compensation event clause shall be dealt with in accordance with employers' procurements procedures and as per section 6 of the core clauses

## **2.7 Training workshops and technology transfer**

The contractor shall be required to have at least one training workshop per year where the sharing of the technology used to the nominated people by the employer

## **2.8 Design and supply of Equipment**

In an event that the Contractor have to design an equipment that will enable providing of the service, the contractor shall ensure that some details of the design of Equipment are shared with the *Service Manager*, not necessarily for his acceptance but as an assurance that the Equipment will be able to allow the *Contractor* to Provide the Service efficiently and without delay

The liability for such design supply and use of the Equipment shall remain with the *Contractor*.

## **2.9 Things provided at the end of the *service period* for the *Employer's use***

### **2.9.1 Information and other things**

The *Contractor* shall provide at the end of the *service period* be stated in the Service Information:

- Equipment master database collected by the contractor or created by the contractor shall remain the property of Eskom and should submit to Eskom upon expiry of the contract.

The equipment master database shall consist of the following categories of data as a minimum:

- Identity and specifications
- Function and operating conditions
- Measurement parameters
- Measurement points
- Alarm thresholds
- Measurements history.

## 2.10 Management of work done by Task Order

Many considerations can apply to Task Orders, such as availability of resources, arrangements for emergency work, Task Order reporting (work carried out and service results), assessment of additional Prices for service not included in the Price List etc.

- The employer shall authorised work by issuing a task order to the contractor specifying the work service that needs to be carried out
- During the execution of the work/service by the contractor, the employer may from time to time perform random witnessing to ensure that the agreed quality requirement are meet
- The employer shall perform assessment of the work /services done to verify that the work /services done were completed as per task order.
- The contractor shall supply the task order report which as minimum reflects work carried out and services results, resources involved and price for the service as per price list.

## 3 Health and safety, the environment and quality assurance

### 3.1 Health and safety risk management

#### 3.1.1 The contractor shall comply with SHE tender returnables requirements (document No 1021054)

#### 3.1.2 Plant Safety Regulations:

- a) Eskom Holdings Limited, on request from the Contracting Party, isolates required plant from all sources of danger as described in the Plant Safety Regulations
- b) Eskom Holdings Limited, on request from the Contracting Party, makes available a copy of the latest revision of the Plant Safety Regulations to the Contracting Party.
- c) The Contracting Party conforms to all rules and regulations applicable to Plant Safety and completes the Workman's Register prior to working on the plant.

#### 3.1.3 Fire Precautions:

- a) Any tampering with Eskom Holdings Limited's fire equipment is strictly forbidden.
- b) All exit doors, fire escape routes, walkways, stairways and stair landings and access to electrical distribution boards are kept free of obstruction and are used for work or storage at any time. Firefighting equipment remains accessible at all times.
- c) In case of fire, report the location and extent of the fire to the Grootvlei Power Station Electrical Operating Desk at 8400.
- d) Take the necessary action to safe guard the area to prevent injury and spreading of the fire.

#### 3.1.4 Reporting of accidents:

Eskom Holdings Limited follows an accident prevention policy that includes the investigation of all accidents involving personnel and property. This is done with the intention of introducing control measures to prevent a recurrence of the same incidents. The Contracting Party is expected to co-operate fully to achieve this objective. The contract person representing Eskom Holdings Limited is informed immediately of any Category B or C incidents. Category A incidents and any damage to property or equipment is reported to the contract person representing Eskom Holdings Limited within 24-hours.

- a) **NOTE:** This report does not relieve the Contracting Party of his legal obligation to report certain incidents to the Department of Labour, or to keep records in terms of the Occupational Health and Safety Act, and Compensation for Occupational Injuries and Diseases Act.

#### 3.1.5 Speed limit:

All vehicles are driven with due consideration for personnel and property. A maximum speed limit of 40 km per hour is adhered to on the Grootvlei Power Station premises at all times.

#### 3.1.6 Health and Safety Arrangements:

- b) The Contracting Party ensures that all his personnel attend a Health and Safety Induction Course prior to starting with the work. A one- (1) hour course is provided by Eskom Holdings Limited and is valid for the duration of one- (1) year.
- c) The Contracting Party complies with the guidelines set out in the Contractor's Safety Manual SAS 0013. The sheet on the first page of the Contractor's Safety Manual is completed and signed by the Contracting Party before taking access of the areas associated with his place of work. This sheet remains valid for the duration of the contract. The Contractor's Safety Manual is signed at the Grootvlei Power Station Safety Risk Management Department.
- d) Grootvlei Power Station Safety Risk Management reserves the right and authority to visit and inspect the Contracting Party's workplace or site establishment to ensure that tools, machinery and equipment comply with the minimum safety requirements.
- e) The contract person representing Eskom Holdings Limited may instruct the Contracting Party to stop work, without penalty to Eskom Holdings Limited, where the Contracting Party's personnel fail to conform to safety standards or contravene health and safety regulations. The contract person representing Eskom Holdings Limited may cause the Contracting Party to discipline his employees and to submit a disciplinary action report to Eskom Holdings Limited. The Contracting Party implements additional health and safety precautions where necessary.
- f) The following Health & Safety requirements are also complied with:
- i) The Contracting Party's proof of registration with the Compensation Commissioner and assessment of payment is verified.
  - ii) The Contracting Party demonstrates that all of his/her employees have been made aware and understand the risks and hazards associated with the type of work or activity to be carried out.
  - iii) The Contracting Party supplies a Certificate of Competency to the contract person representing Eskom Holdings Limited of his/her employees to work under the following conditions, prior to commencement of any such work on site:
    - Confined Spaces
    - Heights
    - Heat stresses
    - Cold stresses
  - iv) The Contracting Party demonstrates to Eskom Holdings Limited that he/she is capable of providing adequate free issue (preferably SABS approved) Personal Protective Equipment (P.P.E.) for use by his employees.

- v) The Contracting Party obtains a Safety Risk Management (SRM) Manual for Contractors (Ref: 30/05-PA\*003) and completes all relevant forms (i.e. pages 25 to 32.)  
NB: All forms are completed and submitted to SRM before the commencement of work on site.
- vi) All the Contracting Party's employees receive formal Safety Induction Training from SRM before commencement of work on site.
- vii) Noisy equipment and tools - no equipment or tools > 105dB (A) are supplied or used by the Contracting Party.
- viii) Sub-contractors - the Contracting Party states if the use of sub-contractor/s are envisaged and who the sub-contractor/s are. Proof is provided to Eskom Holdings Limited that the sub-contractor/s has the necessary competence and resources to carry out the work safely and to ensure that the obligation of care to the environment is exercised.
- ix) The Contracting Party complies with medical examination processes.

### **Health and Safety file**

The following are the requirements for the Health and Safety File contemplated in CR 4(3) and 5 (6):

- Contractor's information and organogram, management and supervisors health and safety training, notification of construction work, letter of good standing, statutory appointments, risk assessments, health and safety induction, fall protection plan, certificates of medical fitness, tools and equipment inspections, hazardous chemical substances, certificates of competency, PPE, environmental Management, safety Plan, health and Safety Specifications, emergency Plan



### 3.1.7 Vehicle and driver safety

All drivers, passengers and pedestrians must obey all vehicle safety requirements in terms of the National Road Traffic Act, Act No 93 of 1996, as amended, including other relevant provincial or local requirements.

#### Transportation of passengers: open LDV's

- a) With effect from 31 May 2006 no Eskom Holdings Limited employee or Contracting Party employee is allowed to transport passengers on the back of open light delivery vehicles (LDV's).
- b) It is a legal requirement to provide safe transportation of Eskom Holdings Limited and Contracting Party employees – therefore the following is enforced:
  - i) The contract person representing Eskom Holdings Limited and the Contracting Party ensures that no Eskom Holdings Limited employee or Contracting Party employees or any other person, when on an Eskom Holdings Limited site and/or performing work for Eskom Holdings Limited, is allowed to be transported in the back of open vehicles.
  - ii) There may be cases where this may not be reasonable or practicable, namely where vehicles are used during line inspections on sites or on private roads, or similar cases, and in these cases such vehicles are driven at less than 30km per hour or at a speed suitable to the prevalent conditions. In such cases, the carrying of passengers in the back of such open vehicles could be explicitly allowed, after:
    - a risk assessment has been carried out, indicating a very low risk;
    - mitigating factors have been identified to control any risk identified;
    - proper seating and handrails have been provided on the back of such open vehicle;
    - these measures have been discussed at the relevant Health and Safety Committee Meeting and approved by the relevant employer.
    - is defined and contained in a formal written division's or BU's policy, including the appropriate mitigating factors;
    - such a policy has been communicated to all employees and contractors.

Such risk assessment findings/outcomes must be available at all times for audit purposes.

  - iii) Tools and equipment must be properly secured.
  - iv) Only authorised drivers may transport passengers.
  - v) Proof must be submitted on request in terms of valid roadworthiness of the vehicle/s.
  - vi) The above must apply to on site and off site transportation of passengers.
  - vii) No person may be transported in the back of vehicles closed by means of canopies, unless provided with factory-fitted or manufactured-approved, proper seating and safety belts, i.e. crew cabs.
- c) The driver must ensure that no employees are transported in the back of open vehicles unless it is allowed in terms of a divisional or BU-specific policy as referred to in paragraph b) ii). This also applies to the Contracting Party and its employees when performing work for Eskom.
- d) The driver must ensure that all canopies are properly fitted and secured and that all loose tools and objects in vehicles are properly secured.
- e) The driver must make sure that their passengers are seated and wear seatbelts at all times.

### 3.1.8 Life savings rules:

Five Life saving Rules have been developed that will apply to all Eskom Holdings Limited employees, agents, consultants and contractors.

- **Rule 1:** Open, Isolate, Test, Earth, Bond, and/or Insulate before touch - that is any plant operating above 1 000 V.
- **Rule 2:** Hook up at heights - no person may work at height where there is a risk of falling.
- **Rule 3:** Buckle up – no person may drive any vehicle on Eskom business and/or on Eskom premises unless the driver and all passengers are wearing seat belts.

Eskom takes a "ZERO TOLERANCE" attitude to drivers and passengers who do not wear safety belts when driving in any vehicle on Eskom Business and/or on Eskom premises. The violation of this very important safety rule as well as any safety rule while performing work for or on behalf of Eskom may result in Eskom terminating your obligation to perform work in terms of your contract with Eskom.

All occupants must wear their safety belts properly, and must never put the shoulder belt under their arm or behind their backs. Drivers and all passengers must buckle-up at all times for the sake of themselves and their families.

- **Rule 4:** Be sober (no person is allowed to work under the influence of drugs or alcohol).
- **Rule 5:** Use a permit to work – where an authorization limitation exists, no person shall work without the required permit to work.
- **Rule 6:** Talking on the phone whilst walking or driving is prohibited.

### 3.1.9 Thermal and Flash Suits – Personal Protective Equipment

The following Health & Safety requirements are also complied with:

#### a) Policy:

Generation Policy GGP 36-941 Rev 0 – "SAFETY MEASURES AND APPROVED PROTECTIVE CLOTHING AND PERSONAL PROTECTIVE EQUIPMENT AGAINST THERMAL HAZARDS OF AN ELECTRIC ARC FOR METAL CLAD SWITCHGEAR (UP TO 11Kv) NOT INTERNAL ARC PROOF" was issued in February 2008, and all Generation BU's are to comply with it.

#### b) Standard:

Standard GGS 36-941 Rev 0 - "SAFETY MEASURES AND APPROVED PROTECTIVE CLOTHING AND PERSONAL PROTECTIVE EQUIPMENT AGAINST THERMAL HAZARDS OF AN ELECTRIC ARC FOR METAL CLAD SWITCHGEAR (UP TO 11Kv) NOT INTERNAL ARC PROOF" was issued in February 2008, and sets out the requirements to ensure safety with this plant.

**c) Procedure:**

A proper Procedure is required at each Station to ensure that all involved and affected staff are fully aware of the dangers attached to MV and LV Switchgear, and the approved methods of managing the risks involved.

For externally mounted Switchgear, GGS 36-942 prescribes the following standard Flash Protection Boundaries:

FLASH PROTECTION BOUNDARY	
VOLTAGE (VOLTS)	DISTANCE (METERS)
50 TO 750	0.9
750 TO 1,000	1.2
1,000 TO 11,000	4.8

**3.1.10 Plant Safety Regulations - Appointment of a Responsible Person, Appointed Person and/or an Authorised Supervisor (Rev 0 - May 2008)**

The OHSA states that anyone entering Eskom Holdings Limited's premises must adhere to its set of regulations, i.e. Plant Safety Regulations, as Eskom Holdings Limited is responsible for the Contractor's safety while they are on Eskom Holdings Limited's sites.

It is required that all Contractors must appoint a Responsible Person or an Authorised Supervisor to supervise work done by the Contracting Party.

An Appointed Person can be appointed by the Contracting Party to do isolations if required.

**3.1.11 Process to appoint a Responsible Person, Appointed Person and/or Authorised Supervisor**

The Contracting Party will identify a person who will represent him as a Responsible Person, Appointed Person and/or an Authorised Supervisor. The Contracting Party may send more than one person for training.

The appointed person/s will be trained by Eskom Holdings Limited. There are two Formal sets of training, i.e. Theoretical Training and Practical Training

**3.1.12 Training**

**i) Practical training**

The Contracting Party will send a representative for training to become a Responsible Person, an Appointed Person and/or an Authorised Supervisor to be instructed in the Practical aspects of the plant, Isolations, Plant Identification, Plant systems etc.

**ii) Theoretical training**

During his practical training period, the representative of the Contracting Party must attend a theoretical course of 5 days for a Responsible Person and 2.5 days for an Authorised Supervisor. From the time that the person has written the Exam for the theoretical test to the time that he must appear before the Authorisation Committee is three months.

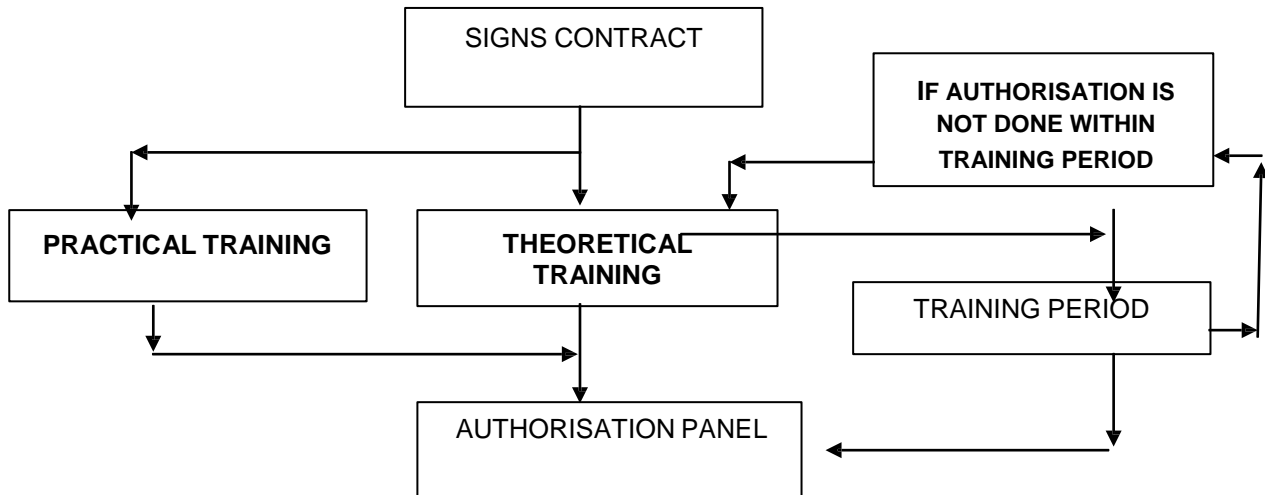
If he does not appear before the Authorisation Committee during the three months, he must redo the theoretical exam.

The duration and cost for Practical and Theoretical training, as a package, will be determined by Bets De Beer (Training – Grootvlei Power Station).

He can be contacted at +27 17 779 8973, to arrange for training.

The costs will be handled as a compensation event.

### 3.1.13 Training process



### 3.1.14 Costs related to training

The Contracting Party will be responsible for all costs related to the training. The costs must be shown separately in the price list.

### 3.1.15 Accreditation and validity period and area

A certificate will be issued to the Responsible Person, an Appointed Person and/or an Authorised Supervisor which will be valid for 2 years and it will only be applicable to Grootvlei Power Station.

If a person who is authorised moves from one Contracting Party to another, his/her authorization automatically lapses.

### 3.1.16 Contact Person - Grootvlei Power Station

Bets De Beer (Training - Grootvlei Power Station) is the custodian at Grootvlei Power Station for the above training and accreditation and he can be contacted at Tel +27 17 779 8973.

**No work will be done at Grootvlei Power Station by the Contracting Party if he did not appoint an accredited Responsible Person for Grootvlei Power Station.**

### **3.1.17 Authorisation of contractors in term of ORHVS (Operating Regulations for High Voltage Systems) and PSR (Plant Safety Regulations):**

Eskom Holdings Limited employs many contractors to work not only on new installations but to a greater extent on existing plant and networks and the contractors are therefore required to comply with Eskom Holdings Limited's relevant regulations.

To enable contractor's staff to be authorized as responsible persons or other authorizations in terms of the ORHVS, PSR, and Directive ESKADAAU4 there has been much speculation as to what the requirements are in terms of the OHS act.

In order to clarify these issues, many discussions with our Legal department and consulting advocates had taken place and the following are minimum requirements to ensure that reasonable steps are taken.

1. It is absolutely necessary at the outset to stipulate in the tender documents what the requirements are in terms of the ORHVS and PSR. These requirements must include (inter alia):
  - Competencies required of the contractor or their employees.
  - What knowledge of the ORHVS and PSR parts thereof, is required by the relevant persons.
  - The scope of the contractor's responsibilities in terms of any authorizations.
  - What the contractor will be required to satisfy with respect to the requirements of the OHS Act.
2. Contracts shall include:
  - In terms of Section 37(2) of the OHS Act an agreement to ensure compliance by the mandatory with the provisions of the Act. It is not possible to quote a single standard that will cater for all contracts; each contract shall be handled on a case by case basis.
  - The above-mentioned requirements that were requested in the call for Tender.
  - The contractor's person designated in terms of Section 16 of the Act. The contractor shall also declare in writing their employees competent in terms of the relevant requirements.
3. Once a contract is awarded, the Eskom Holdings Limited person designated in terms of the General Machinery Regulation 2 shall ensure the following before work in terms of the ORHVS and PSR is done.
  - The contractor or their employees shall be evaluated against the scope of authorization.
  - The Eskom Holdings Limited regulations applicable to the scope of the work to be done shall be handed to the contractor. Depending on the nature of the contract it may be beneficial for the contractors' person/s requiring authorization to attend the relevant formal regulation course.
  - With regard to the actual authorization the contractor shall declare in writing their Section 16 appointee competent and define the extent of his responsibility. The Eskom Holdings Limited GMR2 appointee shall approve the acceptability of the contractor's Responsible Person (Section 16 appointee) or shall authorize any other duties in terms of the ORHVS and PSR as per ESKADAAU4.
  - All authorizations shall be for specific contracts and limited to a specific time frame.
  - Notwithstanding the Section 37(2) agreement that was concluded between Eskom Holdings Limited and the contractor, Eskom Holdings Limited is not absolved from a "Duty of Care" requirement over the "mandatory". This implies that for example, when contractors are working on, or in close proximity to Eskom Holdings Limited's live apparatus they shall be supervised to the extent of what would be considered reasonable.

### **3.1.18 Barricading / Screens and Scaffolding:**

The Contracting Party provides and installs barricades and warning devices to ensure that equipment and persons are not exposed to danger or to prevent access to dangerous areas.

Eskom Holdings Limited supplies scaffolding. Arrangements of such is made at least one- (1) week in advance by the Contracting Party. (Tampering of any approved scaffold is not allowed for any adjustments – The contract person representing Eskom Holdings Limited is notified for any adjustments.

### **3.1.19 Asbestos:**

- a) All stripping of asbestos material shall be undertaken strictly in accordance with the Eskom Holdings Limited Procedure OVP76 HSPHRN 00 00 5 and other relevant standards and updates, with special reference to the asbestos regulations according to the Occupational Health and Safety Act number 85 of 1993.
- b) The contract person representing Eskom Holdings Limited advises the Contracting Party whether areas that are to be stripped of lagging have been identified as containing asbestos. If the Contracting Party is not sure whether lagging contains asbestos, he is to notify Safety Risk Management who will identify whether the lagging contains asbestos.
- c) The Contracting Party shall be obliged to ascertain from the contract person representing Eskom Holdings Limited in advance whether areas required to be stripped are non-asbestos. Any contractor, other than the contractor appointed to remove asbestos shall strip lagging material containing asbestos fibers.
- d) The contractor appointed to remove asbestos, may not begin removal without first obtaining the necessary permission from the Inspector of Labour and Risk Management.

## **3.2 Environmental constraints and management**

The contractor shall comply with Grootvlei Environmental procedure 1018332  
The contractor shall comply with SHE File checklist document number 1020229

## **3.3 Quality assurance requirements**

The Contractor shall comply with QM 58 requirements which stipulate minimum requirements.

The contractor shall comply with the minimum requirements for the *Contractor's* Quality Plan and Work Procedures or provide the *Employer's* Quality Plan if that is to be used.

The Employer shall witness and hold points are identified generally and describe any particular requirements for QA

The Employer shall do QCP on Jobs like Laser Alignment performed by the Contractor.

The employer shall visit the site and do job observation in terms of Safety and quality. The

contractor shall repeat any work that is substandard until the required service is met.

The use of any equipment or strategies that do not meet the specified requirements shall be subjected to approval of the Employer.

### **Tool Calibration**

The contractor shall ensure that all instruments have valid calibration certificates at time of use and the calibration certificates must be available on request.

## 4 Procurement

### 4.1 People

#### 4.1.1 Minimum requirements of people employed

The contractor shall submit proof of qualifications and CV (experience records) for all condition monitoring personnel that will be on site and also that will be providing the services.

#### Staff and Skills required on site

The contractor shall ensure the following minimum skills and competence shall always be onsite.

- Minimum 9 of personnel to be on site during the normal working hours
- Site Manager- Shall have National Diploma and Oil analysis courses
- Site supervisor – Shall have Oil analysis Level 2, SAMTRAC (safety management training course)
- Tribologist shall have a 3year technical Mechanical/chemical diploma and oil analysis level 2
- Lube Technician x3 – Shall have national certificate or equivalent NQF level 3, shall be Certified to take oil samples on rotating Machinery, basic computer skills, must be able to operate equipment such as overhead and floor mounted oil and grease guns, hand tools and basic office equipment, must be able to lift and move work-related items up to 25 kg, must be able to push, pull, pull up, bend at the knees and waist, twist body at the waist, raise and hold arms overhead, turn head- neck-shoulders as needed, grasp and hold tools and other items with hands, must have a valid driver's license and be able to operate a forklift with valid training.
- Lube assistant x3 - shall be Certified to take oil samples on rotating Machinery, must be able to operate equipment such as overhead and floor mounted oil and grease guns, hand tools and basic office equipment, must be able to lift and move work-related items up to 25 kg, must be able to push, pull, pull up, bend at the knees and waist, twist body at the waist, raise and hold arms overhead, turn head-neck-shoulders as needed, grasp and hold tools and other items with hands, must have valid driver's license and be able to operate a forklift with valid training.

#### Mandatory:

The contractor shall ensure that technician or analyst may not conduct work above his/her education and experience qualification example Level/category 1 Vibration analyst may take vibration measurements, but not conduct diagnosis and prognosis for delivery to Eskom.

### 4.2 Subcontracting

TSC3 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 specialist services need to be obtained from a particular supplier or group of suppliers in order to comply with operational standards.

#### 4.2.1 Subcontract documentation, and assessment of subcontract tenders

If the contractor subcontracts works, the contractor is responsible for providing the works as if the contractor has not subcontracted. This contract applies as subcontractors employees and equipment were the contractors.

#### **4.2.2 Limitations on subcontracting**

- All the requirements stipulated on this service information shall be met by the subcontractor in case the contractor subcontract.
- The employer shall perform all necessary checks, assessment and verification and that subcontractor all the requirements.



## **4.3 Plant and Materials**

### **4.3.1 Specifications**

The employer shall make the specification of the existing equipment where service will be provide accessible to the contractor.

The contractor shall develop a database and submit to the employer for review and acceptance prior to the service work being performed.

### **4.3.2 Correction of defects**

The contractor shall notify the employer when the plant where work/service is defective. The flip system/SAP should be used with the assistance of operating or P&T team to raise defects and services manager must be notified immediately

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

The contractor shall submit all plant and material purchased and asset register to the employer for record keeping.

## 5 Working on the Affected Property

### 5.1 Employer's site entry and security control, permits, and site regulations

#### 5.1.1 Security Arrangements:

- a) The Contracting Party applies for a photo permit (if on site for longer than two- (2) months) at Protective Services at the Grootvlei Power Station main security gate, prior to the start of any work on site.
- b) All Contracting Party's personnel are issued with a temporary access permit if not on site for at least two- (2) months which contains the following information:
  - Name
  - ID Number
  - Company
  - Validity date
- c) In order to assist Protective Services with the issuing of permits and the identification of personnel on site, the Contracting Party supplies a list of all personnel that he intends using on site, at least 24-hours prior to entry of the Grootvlei Power Station Security Area. This list is hand delivered to Protective Services. The list, identified with the Contracting Party's name, contains the following information:
  - Employee name
  - Employee ID Number
  - Signature of the contract person representing Eskom Holdings Limited
  - Copy of the first page of the ID book of every employee of the Contracting Party
- d) The list of details is completed on the special form attached to the Contractor's Safety Manual, available on request from the contract person representing Eskom Holdings Limited.
- e) The Contracting Party's personnel are required to be in possession of their Contractor's Permits at all times.
- f) All Contractor Permits are submitted to Protective Services when the relevant personnel leave the site after completion of the work.
- g) Lost permits are paid for by the Contracting Party to Protective Services at a cost of R20,00 per lost permit.
- h) The Contracting Party's visitors and all personnel conform at all times, to the security arrangements in force at the time. Application forms for visitors are filled in by the Contracting Party's Site Manager and approved by the contract person representing Eskom Holdings Limited, one- (1) day before the visit and submitted to the Protective Services office. Visitors are not allowed on site if the necessary forms are not in the possession of security staff.
- i) The Chief of Protective Services may with valid cause remove any of the Contracting Party's personnel from the site, either temporarily or permanently. He may deny access to the site to any person, whom, in the opinion of the said Chief of Protective Services, constitutes a security risk.
- j) No unauthorized vehicles are allowed on site. Only the Contracting Party's vehicles with displayed Contract Vehicle Permit disks are allowed on site. Contract Vehicle Permit applications are directed to the contract person representing Eskom Holdings Limited.
- k) The Contracting Party is restricted to the areas associated with his place of work. The Contracting Party is forbidden to enter any other areas, and ensures that his employees, subcontractors and/or sub consultants abide by these regulations.

- l) Parking inside the Grootvlei Power Station building is strictly forbidden, except for loading and off-loading purposes.

No recruiting of labor, casual or otherwise, may be done on the Grootvlei Power Station premises, including the area outside the Grootvlei Power Station main security gate

## 5.2 People restrictions, hours of work, conduct and records

### Working hours:

Monday – Thursday: 07h15 to 16h30  
Fridays: 07h15 to 12h15

The scope of work (Routine services) is expected to be executed between 7:15 am to 16:30 Monday to Thursday and between 7:15 to 12:15 on Friday, A standby service must be available on demand outside of these times. The standby service must be capable of providing all service items. Personnel shall be based on site on a daily basis and a daily register shall be made available on request by the employer.

## 5.3 Records of *Contractor's* Equipment

All the instruments or equipment provided by the contractor shall be documented by the Grootvlei security personnel and the copy shall be kept by the contractor on their allocated site, upon leaving the site the contractor shall produce the original list of instruments or equipment to security as proof of ownership.

## 5.4 Site services and facilities

### 5.4.1 Provided by the Employer

The following services shall be provided by the employer

- Office space
- Water
- Electricity
- Drawings as and when required

### 5.4.2 Provided by the Contractor

The contractor shall provide all office equipment and office consumables which will be used for data input required. The computers must also be maintained and upgrade by the contractor. The contractor shall be responsible for the payment of all applicable software license fees.

The contractor shall be responsible for the supply and maintenance of all portable condition monitoring equipment's and tools required performing the service. Tools include but not limited to vibration analysers, infra-red cameras, condition monitoring database and software, all computer hardware to run the software including consumables.

The Contractor shall be responsible for all tribology expenses.

The contractor shall be responsible for its own accommodation and transportation of workers to and from the site.

All condition monitoring instruments or equipment including office furniture provided by the contractor shall remain the property of the contractor and upon contract expiry they shall be removed by the contractor

**APPENDIX A**

**GROOTVLEI POWER STATION  
CONDITION MONITORING SCOPE OF  
WORK**

PLANT DESCRIPTION	Greasing Frequency	Lube checks	Tribology frequency
<b>Turbine plant</b>			
<u>AC Booster Oil Pump (K.S.B)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
Motor Bearings			
<u>Seal Oil Motor (A.C.) (Brown Boveri)(A)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Motor Bearings			
<u>Seal Oil Motor (A.C.) (Brown Boveri)(B)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Motor Bearings			
<u>Seal Oil Motor (D.C.) (Brown Boveri)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Motor Bearings			
<u>Vacuum Pump Seal Oil (Brown Boveri)(A)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Bolzers Pump			
Motor Bearings (2 OFF)			
<u>Vacuum Pump Seal Oil (Brown Boveri)(B)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Bolzers Pump			
Motor Bearings (2 OFF)			
<u>Stator Coolant Pump A</u>	Weekly/Monthly	Daily	Monthly/3Monthly
K. Riitschi Pump			
Brown B. Motor			
<u>Stator Coolant Pump B</u>	Weekly/Monthly	Daily	Monthly/3Monthly
K. Riitschi Pump			
Brown B. Motor			
<u>Main Turbine Extraction Pumps (M&amp;P)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Journal Bearings			
Thrust Bearings			
Motor Bearings			
<u>Main Turbine Extraction Pumps (M&amp;P)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Journal Bearings			
Thrust Bearings			
Motor Bearings			
<u>Suction Feed Pump (A)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Journal Bearings			
Thrust Bearings			
Motor Bearings			
<u>Suction Feed Pump (B)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Journal Bearings			

Thrust Bearings			
Motor Bearings			
<u>Turbine Barring Gear</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Motor Bearings			
Barring Gear			
Aux. Oil Pump			
Aux. Oil Pump Motor			
<u>AC Bearing Oil Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
Motor Bearings			
<u>AC Control Oil Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
Motor Bearings			
<u>Main Oil Tank</u>			
Circulating System			
<u>Main Oil Tank Extraction Vent Fans</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Electric Motors			
<u>Gland Steam Extraction Vent Fans</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Electric Motors (Siemens)			
Lube Oil Pump (K.S.B.) D.C.			
Pump Bearings			
Motor Bearings			
<u>LP Turbine Jacking Oil Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
Motor Bearings			
<u>HP Turbine Jacking Oil Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
Motor Bearings			
<u>Generator Jacking Oil Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
Motor Bearings			
<u>Sealing Oil Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Motor Bearings			
Pump Bearings			
<u>Centrifuges (Hopkinson)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Motor Bearings			
Oil Sump			
Couplings Bearings (Powder)			

Oil Purifying Plant Pump	Weekly/Monthly	Daily	Monthly/3Monthly
Pump			
Oil Sump			
Couplings Bearings			
Sulzer 100% Feed Pumps	Weekly/Monthly	Daily	Monthly/3Monthly
S.F.P. Turbine			
S.F. Pump			
David Brown Red. Gearbox			
Sulzer Primary Pump			
K.S.B. 50% Feed Pumps (A)	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
Brush Electric Motors			
K.S.B. 50% Feed Pumps (B)	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
Brush Electric Motors			
K.S.B. Oil Transfer Pumps (A)	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
K.S.B. Oil Transfer Pumps (B)	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
Steam Feed Turbine	Weekly/Monthly	Daily	Monthly/3Monthly
Barring Gear Pump (M & P)			
Pump Motor Bearings (B.B.C)			
Aux. Oil Pump (M & P)			
Pump Motor Bearings (B.B.C)			
D.C. Lube Oil Pump (M & P)			
Pump Motor Bearings (B.B.C)			
Extraction Pump Bearings (M & P)			
Pump Motor Bearings (B.B.C)			
Oil Tank (8000lt)			
Gwynnes C.W. Pumps	Weekly/Monthly	Daily	Monthly/3Monthly
Gearboxes (B.E.W.)			
Brush Electric Motors			
Michel Vert Thrust & Journal Bearing			
Michel Vertical Guide Bearing			
Hydraulic Packs			
AC Control DC Bearing Oil Pump	Weekly/Monthly	Daily	Monthly/3Monthly
Auxiliary Pumps x2	Weekly/Monthly	Daily	Monthly/3Monthly
H2 Booster Pump x2	Weekly/Monthly	Daily	Monthly/3Monthly
SFP Seal Water Pumps x2	Weekly/Monthly	Daily	Monthly/3Monthly
CEP A Motor & Pump x2	Weekly/Monthly	Daily	Monthly/3Monthly

CEP's Pump Oil bearings x2			
CEP B Motor & Pump x2			
CEP's Pump Oil bearings x2			
SFPT AC Pump	Weekly/Monthly	Daily	Monthly/3Monthly
SFPT DC Pump			
Stator Coolant DC Pump	Weekly/Monthly	Daily	Monthly/3Monthly
SFPT CEP A de & nde	Weekly/Monthly	Daily	Monthly/3Monthly
SFPT CEP B de & nde	Weekly/Monthly	Daily	Monthly/3Monthly

PLANT DESCRIPTION	Greasing Frequency	Lube checks	Tribology frequency
<b>Boiler Plant</b>			
<u>Mill Coal Feed</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Motor			
P.I.V Vari-Speed (BLR 1)			
Worm Gear			
Spur Gear			
<u>Babcock 8,5E Mills</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Motor Bearings			
Flexible Couplings			
Pulverizer Ball			
Main Drive Gearbox			
Circulating Oil Pump			
Labyrinth seals			
Ram Cylinders			
<u>Mills</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Ram Cylinders			
Trunnion Oil Tanks			
Mill Roller Arm			
Mill Drive Gearbox			
<u>Unit 1,5 &amp; 6</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>I.D. Fans Left Hand ID Fan</u>			
Fan Bearings			
Motor Bearings L.S.			
<u>Unit 2,3 &amp; 4</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>I.D. Fans Right Hand ID Fan</u>			
Fan Bearings			
Motor Bearings L.S.			
<u>Fluid Drive Coupling</u>			
<u>Attemperator Spray Water Valves</u>			

Feedwater Electrical Operating Valves			
Windbox Dampers			
H.P. Heaters Valves			
Unit 1-6 (A-F) P.A. Fans	Weekly/Monthly	Daily	Monthly/3Monthly
Fan Bearings			
Couplings (V.S.) 6 Off			
Motor Bearings L.S.			
Unit 1-6 (A-F) F.D. Fans x 2	Weekly/Monthly	Daily	Monthly/3Monthly
Fan Bearings			
Couplings			
Motor Bearings L.S.			
Unit 1-6 (A-F) Seal Air Fans	Weekly/Monthly	Daily	Monthly/3Monthly
Motor			
Bearing Block			
Fan Bearings			
Air Preheaters	Weekly/Monthly	Daily	Monthly/3Monthly
Main Drive Motors			
Pinion Shaft Bearings			
Slides Guides of Drive Base			
Pivot Pins			
Pinion and Rack and Shaft Seal			
Gearbox			
Support Bearings and guide bearing			
Varley Lube Unit Tank			
Varley Lube Unit Motor			
Bearing Labyrinth Seals			
Soot Blowers (Diamond) Hopkinsons	Weekly/Monthly	Daily	Monthly/3Monthly
Gearbox (24)			
Lance Hubs			
Fittings			
Gearbox Rack			
Soot Blowers (Diamond) Hopkinsons	Weekly/Monthly	Daily	Monthly/3Monthly
Gearbox (24)			
Lance Hubs			
Fittings			
Gearbox Rack			
HP Valves - Hopkinson Actuators			
Main Bearings			
Instrument Control Air Lines			
Babcock Imp Oil Burner			



Tully Actuators (24)			
<u>Bailey Automatic Control Meters</u>			
Drive Shaft Bearings			
Electric Motor			
Grease Points			
Open Gears			
<u>Boiler Air Control Standby System</u>			
Rotork-Bettis			
<u>Compressors (Instrumentation)</u>			
Broom and Wade Type B/W 40			
Ingersoll-Rand E.S.V.			
Crankcase Force Feed			
Motors			
<u>H.P. Valves</u>			
Main Turbine			
Rotork Actuators			
Hopkinson Actuators			
Spur Bevel Gears			
Mitre Gearboxes			
<u>Safety Valves</u>			
Hopkinson Hylif Torsion			
<u>Superheater valves</u>			
Hopkinsons			
<u>Brandt Precipitators</u>			
Geared Motor Unit (S.E.W) 6			
Outer Bearings and chain drive			
Trf. Rectifier			
Plummer Blocks			
<u>FFP Plant</u>			
Compressors			

PLANT DESCRIPTION	Greasing Frequency	Lube checks	Tribology frequency
<b>Auxiliary Plant</b>			
C-P Electric Motors C215	Weekly/Monthly	Daily	Monthly/3Monthly
Dunham Bush Compressors 52U-DHF5			
Water Circulating Pump – KSB			
Motor Pump A.E.I.			
Fans, Donkin 27 and 24			
Screens			
<u>IG Reavell Compressors</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Sump Filler and Dipstick			
Drip Feed Filler			
<u>Station Switches</u>			
South Wales Dashpots			
<u>New Station Compressor</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Broom Wade VDM 1000			
<u>Mulsifier Compressor</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Compressor (Delfos Atlas Copco)			
Motor Bearings (Eng. Electric)			
<u>Fire Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Harland Pump			
Leyland Diesel Engine			
<u>B.V.C Dust Extractor/ Vacuum Plants</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Exhauster Bearings			
Motor Bearings			
Shutter Valves			
Lead Screws			
Phneumatic Control Units			
Holman Howden Compressor (R0602)			
<u>Station Compressors 2</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Holman Howden Compressor (R0602)			
Electric Motor (Laurence Scott)			
Fan Electric Motor (A.E.I)			
<u>Boiler 1-6 Chemical Injection Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Sump			

PLANT DESCRIPTION	Greasing Frequency	Lube checks	Tribology frequency
<b>Coal Plant</b>			
CONVEYOR BELT 30 MOTOR GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 30 FLUID DRIVE COUPLING	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 31 MOTOR GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 31 FLUID DRIVE COUPLING	Weekly/Monthly	Daily	Monthly/3Monthly
CONV BLT 21A MTR GRBX	Weekly/Monthly	Daily	Monthly/3Monthly
Fluid coupling voith			
CONVEYOR BELT 21B MOTOR GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
Fluid coupling voith			
CONVEYOR BELT 22B GEARBOX			
Fluid coupling voith			
CONVEYOR BELT 23A GEARBOX			
CONVEYOR BELT 23A FLUID DRIVE COUPLING			
CONVEYOR BELT 23B GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 23B FLUID DRIVE COUPLING			
CONVEYOR BELT 23C GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 23C FLUID DRIVE COUPLING			
CONVEYOR BELT 23D MOTOR GEARBOX			
CONVEYOR BELT 23D FLUID DRIVE COUPLING			
CONVEYOR BELT 24A MOTOR GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 24A FLUID DRIVE COUPLING			
CONVEYOR BELT 24B MOTOR GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 24B FLUID DRIVE COUPLING			
CONVEYOR BELT 24C MOTOR GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly

CONVEYOR BELT 24C FLUID DRIVE COUPLING			
CONVEYOR BELT 25A GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 25A FLUID DRIVE COUPLING			
CONVEYOR BELT 25B GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 25B FLUID DRIVE COUPLING			
CONVEYOR BELT 26A GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 26A FLUID DRIVE COUPLING			
CONVEYOR BELT 26B GEARBOX	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 26B FLUID DRIVE COUPLING			
Gearbox	Weekly/Monthly	Daily	Monthly/3Monthly
Fluid coupling voith			
Gearbox	Weekly/Monthly	Daily	Monthly/3Monthly
Fluid coupling voith			
Gearbox	Weekly/Monthly	Daily	Monthly/3Monthly
Fluid coupling voith			
Gearbox	Weekly/Monthly	Daily	Monthly/3Monthly
Fluid coupling voith			
Buffalo feeder crusher gearbox			
Buffalo feeder Gearbox 1			
Buffalo feeder Gearbox 2			
Buffalo feeder grease bucket			
Gearbox	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 32 FLUID DRIVE COUPLING			
CONVEYOR BELT 32 GEARBOX 1	Weekly/Monthly	Daily	Monthly/3Monthly
CONVEYOR BELT 32 GEARBOX 1	Weekly/Monthly	Daily	Monthly/3Monthly

PLANT DESCRIPTION	Greasing Frequency	Lube checks	Tribology frequency
<b>Vaal dam</b>			
<u>Duct Priming Pump A-G</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump and Motor			
<u>Gwynnes Intake Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings			
<u>Sump Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Emergency Flight Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Floculent Dosing Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Floculent Dilution Tank Mixer</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Bulk Floculent Transfer Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Booster Pump ( Guard House)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Dilution Water Transfer Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Borehole Submissible pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Clarifier Desludge Drive</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Gwynnes High Lift Pumps</u>			
Pump Bearings			
<u>Actuator</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Type 14A/16A Electric			
<u>Flight Pump</u>			
<u>Sludge Pumps</u>			
<u>Q. Box</u>	Weekly/Monthly		
Type 6Q (Grease Packed)			
Type 8Q (Grease Packed)			
Type 4Q (Grease Packed)			
Type 2Q (Grease Packed)			
<u>W. Box</u>			
Type OWT			
Type ZWT			
<u>I.E.S. C.W. Butterfly Valves 120"</u>			
Rotork Actuator (90A)			
Valves Spindles (8Q)			

PLANT DESCRIPTION	Greasing Frequency	Lube checks	Tribology frequency
<b>Water Plant</b>			
<u>Demin, Water Booster Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Harland Pump Bearings (DRA 5/6)			
A.E.I. Electric Motor Bearings			
<u>Degasser Air Fans (A)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Degasser Air Fans (B)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Holmes Blower H. Gears</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Bearings			
Eng. Elect. Motors			
High Speed Mixer Soda Tank			
<u>Dilution Tank Drainage Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Worthington - Simpson Pumps			
English Electric Motors 10 H.P.			
<u>Control Panel Operation</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Mist Lubricators			
<u>Raw Water Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings (M & P)			
Electric Motors (A.E.I.)			
<u>Potable Water Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings (M & P)			
Electric Motor (Brush)			
<u>Filter Backwash Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Pump Bearings (M & P)			
Electric Motor (A.E.I.)			
<u>Floculator mixer ( 3 off)</u>			
<u>Clarifier ( 2 off)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Sample Extraction Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Cation Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Anion Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Mixed Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Demin Supply Pumps</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Soda Ash Mixer</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Soda Ash Pumps ( 2 off)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Neutralization Tank Mixer</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Submissile sump pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Effluent Transfer Pump ( 2 off )</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Bulk Amonia Supply Pump</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Diluted Amonia Pumps ( 2 off)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Amonia Dosing Pumps ( 6 off)</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Proportioner Adjust-O-Feed</u>	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Chemical Pumps and Vane Guide</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Models 1106/1140 check Valves	Weekly/Monthly	Daily	Monthly/3Monthly
<u>Winsmith Speed Reducers</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Bearings			
<u>Gears Models 4 CB &amp; 5 B To 850 B</u>	Weekly/Monthly	Daily	Monthly/3Monthly
Gears Models 3 1/2" B			
<u>Crank and Wrist Pins</u>	Weekly/Monthly	Daily	Monthly/3Monthly
All Grease Lubricated Parts			
<u>Industrial Mixers (Thomas and Taylor)</u>	Weekly/Monthly	Daily	Monthly/3Monthly

Bearings			
Water Pumps (Mather and Platt)	Weekly/Monthly	Daily	Monthly/3Monthly
Bearings			
Godfrey Universal Blower			
Oil Sump			
Bearings			
Crofts Reducers	Weekly/Monthly	Daily	Monthly/3Monthly
Gearbox			
Clarifloculators	Weekly/Monthly	Daily	Monthly/3Monthly
Reduction Gearbox (Crofts)			
Speed Control Gearbox (Crofts)			
Electric Motor (Eng. Elect.)			
Cooling Water			
Clarification Plant	Weekly/Monthly	Daily	Monthly/3Monthly
Mixers Philadelphia			
Grease			
Dosing Pump			
Mono			
Sludge Pump	Weekly/Monthly	Daily	Monthly/3Monthly
Flygt			
Grease Points			
Dilution Sump	Weekly/Monthly	Daily	Monthly/3Monthly
Vanton Effluent Pump (2 OFF)			
Pillow Block & Flanged Bearings			
Airblower	Weekly/Monthly	Daily	Monthly/3Monthly
Airblower Gearbox			

PLANT DESCRIPTION	Greasing Frequency	Lube checks	Tribology frequency
<b>RO Plant</b>			
Booster Filter & UF Supply Pumps	Weekly/Monthly	Daily	Monthly/3Monthly
UF Backwash Pumps	Weekly/Monthly	Daily	Monthly/3Monthly
RO Feed Water Pumps	Weekly/Monthly	Daily	Monthly/3Monthly
CIP Pump	Weekly/Monthly	Daily	Monthly/3Monthly

PLANT DESCRIPTION	Greasing Frequency	Lube checks	Tribology frequency
<b>Fuel Plant</b>			
Fuel Oil HP Pump 1	Weekly/Monthly	Daily	Monthly/3Monthly
Groove ball bearings		Daily	Monthly/3Monthly
Fuel Oil HP Pump 2	Weekly/Monthly		
Groove ball bearings		Daily	Monthly/3Monthly
Fuel Oil HP Pump 3	Weekly/Monthly		
Groove ball bearings		Daily	Monthly/3Monthly
Fuel Oil HP Pump 4	Weekly/Monthly		
Groove ball bearings		Daily	Monthly/3Monthly
Fuel Oil HP Pump 5	Weekly/Monthly		
Groove ball bearings		Daily	Monthly/3Monthly
Fuel Oil HP Pump 6	Weekly/Monthly		
Groove ball bearings		Daily	Monthly/3Monthly
Fuel Oil HP Pump 7	Weekly/Monthly		
Groove ball bearings			
Diesel Compressor Tank			
Diesel Tank			



## **ANNEXTURE B: KEY PERFORMANCE INDICATORS**

The contractor shall provide all the services and comply with the following indicators:

- The services report shall be submitted to the employer within 5 days of data collection
- The contractor shall respond to call out and be onsite within an hour
- The contractor shall ensure Zero number of unpredicted failures
- The contractor shall investigate all incidents and closed within 7 days
- The contractor shall commit completion work/ activity within the time specified or agreed by both contractor and employer.
- Any challenges that may delay or cause the activity to be cancelled shall be reported to the employer immediately.
- All absenteeism shall be reported to the employer
- All challenges encountered that may lead to delays in reporting to the station within an hour of call out shall be reported immediately to the employer
- Monthly report shall be provided every 3<sup>rd</sup> of each month. If it falls on weekend, then it shall be provided a day that follows a weekend or and holiday
- Weekly report shall be provided every Wednesday. If a Wednesday falls on a holiday then it shall be provided a day before.
- All feedback may be given via whatsapp sms or any other form of communication that will be of record.
- All reports shall be provided in a form of an email only
- Contractor shall ensure that all call outs attended to are of value to the business and not for personal or financial need.
- Contractor shall conduct themselves in a manner that reflects Eskom values
- The contractor shall ensure 100% PM compliance with employer's PM tasks
- The contractor shall ensure Zero incorrect prediction and repeat fault
- The Contractor shall manage the rate of absenteeism
- Contractor shall provide all proof or document related to payment on the 25<sup>th</sup> of every month, failure to do so, will lead to late payment or no payment. All challenges or delays should be reported before the due day.