



NEC3 Term Service Contract (TSC3)

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



and
.....

for The provision of lifting machinery service and lifting tackle, including maintenance, load testing and the supply of required spares and overhead refurbishment on an as and when required basis for a period of 60 months at Koeberg Operating Unit (KOU).

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DSG-310-087

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CONTRACT No. WCKBG2420TC

PART C1: AGREEMENTS & CONTRACT DATA

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C1.1 Form of Offer & Acceptance

Offer

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

The provision of lifting machinery service and lifting tackle, including maintenance, load testing and the supply of required spares and overhead refurbishment on an as and when required basis for a period of 60 months at Koeberg Operating Unit (KOU)

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	As per the pricelist
	Value Added Tax @ 15% is	As per the pricelist
	The offered total of the amount due inclusive of VAT is ¹	As per the pricelist
	(in words) As per the pricelist	

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:**

Name &
signature of
witness

Date

Tenderer's CIDB registration number:

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

Acceptance

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

The terms of the contract, are contained in:

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

Eskom Holdings SOC Ltd
Koeberg Nuclear Power Station
R27 off West Coast Road
Melkbosstrand
Republic of South Africa
7441

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

No.	Subject	Details
1		

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
ofName &
signature
of witness

Date

Eskom Holdings SOC Ltd
Koeberg Nuclear Power Station
R27 off West Coast Road
Melkbosstrand
Republic of South Africa
7441

C1.2 TSC3 Contract Data

Part one - Data provided by the *Employer*

Clause	Statement	Data
1	General	
	The <i>conditions of contract</i> are the core clauses and the clauses for main Option:	
		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
		Z: Additional conditions of contract
	of the NEC3 Term Service Contract April 2013 ² (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.	
10.1	The <i>Service Manager</i> is (name):	Mr Lamla Magatya
	Address	Koeberg Nuclear Power Station R27 Off West Coast Road Melkbosstrand Republic of South Africa
	Tel	021 550 5338
	e-mail	Magatyl@eskom.co.za
11.2(2)	The Affected Property is	Koeberg Operating Unit
11.2(13)	The <i>service</i> is	The provision of lifting machinery service and lifting tackle, including maintenance, load testing and the supply of required spares and

² Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 539 1902 www.ecs.co.za

		overhead refurbishment on an as and when required basis for a period of 60 months at Koeberg Operating Unit (KOU)
11.2(14)	The following matters will be included in the Risk Register	• Matters notified under early warning procedure • Matters that arise from risk reduction meetings
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	• Non outage periods: 1 weeks for general correspondence, except agreed by parties in the relevant Task order • Outage periods: twenty-four hours (24hr)
2	The Contractor's main responsibilities	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	4 weeks of the Contract Date
3	Time	
30.1	The <i>starting date</i> is.	1 March 2026
30.1	The <i>service period</i> is	60 months
4	Testing and defects	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	Payment	
50.1	The <i>assessment interval</i> is	Between 24 th and 25 th day of each successive month.
51.1	The <i>currency of this contract</i> is the	South African Rand (ZAR)
51.2	The period within which payments are made is	30 Days after receipt of a valid tax invoice.
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.
6	Compensation events	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	Use of Equipment Plant and Materials	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
8	Risks and insurance	
80.1	These are additional <i>Employer's</i> risks	Not applicable
9	Termination	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
10	Data for main Option clause	
A	Priced contract with price list	
20.5	The <i>Contractor</i> prepares forecasts of the final total of the Prices for the whole of the <i>service</i> at intervals no longer than	4 Weeks.
11	Data for Option W1	
W1.1	The <i>Adjudicator</i>	the person selected from the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering Panel of Adjudicators by the Party intending to refer a dispute to him. (see www.ice-sa.org.za). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).
W1.2(3)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA a joint Division of the South African Institution of Civil Engineering and the Institution of Civil Engineers (London) (see www.ice-sa.org.za) or its successor body.
W1.4(2)	The <i>tribunal</i> is:	arbitration
W1.4(5)	The <i>arbitration procedure</i> is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.
The place where arbitration is to be held is		Cape Town, 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													
X1.1	The <i>base date</i> for indices is	The base date is one month before tender closing. CPA to kick in after 16 months from the base date.												
	The proportions used to calculate the Price Adjustment Factor are:	<table> <tr> <th>proportion</th><th>linked to index for</th><th>Index prepared by</th></tr> <tr> <td>0.85</td><td>Stats SA Table B1 – CPI headline Index</td><td>Stats SA</td></tr> <tr> <td>0.15</td><td>non-adjustable</td><td></td></tr> <tr> <td>1.00</td><td></td><td></td></tr> </table>	proportion	linked to index for	Index prepared by	0.85	Stats SA Table B1 – CPI headline Index	Stats SA	0.15	non-adjustable		1.00		
proportion	linked to index for	Index prepared by												
0.85	Stats SA Table B1 – CPI headline Index	Stats SA												
0.15	non-adjustable													
1.00														
X2	Changes in the law	There is no reference to Contract Data in this Option and terms in italics are identified elsewhere in this Contract Data.												
X17	Low service damages	Table 14, Page 54p												
X18	Limitation of liability													
X18.1	The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to	R0.0 (zero Rand)												
X18.2	For any one event, the <i>Contractor's</i> liability to the <i>Employer</i> for loss of or damage to the <i>Employer's</i> property is limited to	R25 (twenty-five) Million in respect of the deductibles as described in the <i>Employer's</i> Generation Asset Property damage Insurance Policy. In respect of a Nuclear Peril incident, the Deductible is "Nil"												
X18.3	The <i>Contractor's</i> liability for Defects due to his design of an item of Equipment is limited to	The greater of - the total of the Prices at the Contract Date and - the amounts excluded and unrecoverable from the <i>Employer's</i> insurance (other than the resulting physical damage to the <i>Employer's</i> property which is not excluded) plus the applicable deductibles												
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	the total of the Prices other than for the additional excluded matters. The <i>Contractor's</i> total liability for the additional excluded matters is not limited. The additional excluded matters are amounts for which the <i>Contractor</i> is liable under this contract for												

		1. Defects due to his design, plan and specification, 2. Defects due to manufacture and fabrication outside the Affected Property, 3. loss of or damage to property (other than the <i>Employer's</i> property, Plant and Materials), 4. death of or injury to a person and 5. infringement of an intellectual property right.
X18.5	The <i>end of liability date</i> is	18 months after the end of the <i>service period</i>.
X19	Task Order	
X19.5	The <i>Contractor</i> submits a Task Order programme to the <i>Service Manager</i> within	2 days of receiving the Task Order
Z	The <i>additional conditions of contract</i> are	Z1 to Z14 always apply.
Z1	Cession delegation and assignment	
	Z1.1	The <i>Contractor</i> does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the <i>Employer</i> .
	Z1.2	Notwithstanding the above, the <i>Employer</i> may on written notice to the <i>Contractor</i> cede and delegate its rights and obligations under this contract to any of its subsidiaries or any of its present divisions or operations which may be converted into separate legal entities as a result of the restructuring of the Electricity Supply Industry.
Z2	Joint ventures	
	Z2.1	If the <i>Contractor</i> constitutes a joint venture, consortium or other unincorporated grouping of two or more persons or organisations then these persons or organisations are deemed to be jointly and severally liable to the <i>Employer</i> for the performance of this contract.
	Z2.2	Unless already notified to the <i>Employer</i> , the persons or organisations notify the <i>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.
	Z2.3	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.
Z3	Change of Broad Based Black Economic Empowerment (B-BBEE) status	
	Z3.1	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.
	Z3.2	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> .
	Z3.3	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.
	Z3.4	Failure by the <i>Contractor</i> to notify the <i>Employer</i> of a change in its B-BBEE status may constitute a reason for termination. If the <i>Employer</i> 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.

Z4 Confidentiality

- Z4.1 The Receiving Party does not disclose or make any information arising from or in connection with this contract available to Others, without the prior written consent of the Disclosing Party, which is not unreasonably withheld. This undertaking does not apply to information which at the time of disclosure or thereafter, without default on the part of the Receiving Party, enters the public domain or to information which was already in the possession of the Receiving Party at the time of disclosure, or information independently developed without reference to the Disclosing Party's information. Should the *Contractor* disclose information to Others in terms of clause 25.1, the *Contractor* ensures that the provisions of this clause are complied with by the recipient.
- Z4.2 If the Receiving Party is uncertain about whether any such information is confidential, it is regarded as such until notified otherwise by the Disclosing Party.
- Z4.3 In the event that the Receiving Party is required by law to disclose any such information which is required to be kept confidential, the Receiving Party, to the extent permitted by law prior to disclosure, notifies the Disclosing Party 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 Receiving Party may disclose that portion of the information which it is required to be disclosed by law and uses reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed.
- Z4.4 The Receiving Party ensures that all his Subcontractors abide by the undertakings in this clause.
- Z4.5 The taking of images (whether photographs, video footage or otherwise) of the *works* or any portion thereof, in the course of Providing the Services or after Completion, requires the prior written consent of the *Employer*. All rights in and to all such images vests in the *Employer*.

Z5 Waiver and estoppel: Add to core clause 12.3:

- Z5.1 Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, the *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.

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

- Z6.1 The *Contractor* undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the execution of the *service*. Without limitation the *Contractor*:
6. 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;
 7. 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
 8. 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.
- Z6.2 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.

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

Z7.1 Within one week of receiving a payment certificate from the *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.

Z7.2 If the *Contractor* does not provide a tax invoice in the form and by the time required by this contract, the time by when the *Employer* is to make a payment is extended by a period equal in time to the delayed submission of the correct tax invoice. Interest due by the *Employer* in terms of core clause 51.2 is then calculated from the delayed date by when payment is to be made.

Z7.3 The *Contractor* (if registered in South Africa in terms of the companies Act) is required to comply with the requirements of the Value Added Tax Act, no 89 of 1991 (as amended) and to include the *Employer's* VAT number 4740101508 on each invoice he submits for payment.

Z8 Notifying compensation events

Z8.1 Delete the last paragraph of core clause 61.3 and replace with:

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.

Z9 Employer's limitation of liability

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

Z9.2 The *Contractor's* entitlement under the indemnity in 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.

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

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

Z11 Ethics

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

Affected Party means, as the context requires, any party, irrespective of whether it is the *Contractor* or a third party, such party's employees, agents, or Subcontractors or Subcontractor's employees, or any one or more of all of these parties' relatives or friends,

Coercive Action means to harm or threaten to harm, directly or indirectly, an Affected Party or the property of an Affected Party, or to otherwise influence or attempt to influence an Affected Party to act unlawfully or illegally,

Collusive Action means where two or more parties co-operate to achieve an unlawful or illegal purpose, including to influence an Affected Party to act unlawfully or illegally,

Committing Party means, as the context requires, the *Contractor*, or any member thereof in the case of a joint venture, or its employees, agents, or 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 means any unlawfully or illegally intentional act or omission that misleads, or attempts

Action	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.

Z11.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.

Z11.2 The *Employer* may terminate the *Contractor's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Contractor* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the *Employer* has. It is not required that the Committing Party had to have been found guilty, in court or in any other similar process, of such Prohibited Action before the *Employer* can terminate the *Contractor's* obligation to Provide the Services for this reason.

Z11.3 If the *Employer* terminates the *Contractor's* obligation to Provide the Services for this reason, the amounts due on termination are those intended in core clauses 92.1 and 92.2.

Z11.4 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.

Z12 Insurance

Z 12 .1 Replace core clause 83 with the following:

Insurance cover 83

- 83.1 When requested by a Party, the other Party provides certificates from his insurer or broker stating that the insurances required by this contract are in force.
- 83.2 The *Contractor* provides the insurances stated in the Insurance Table A from the *starting date* until the earlier of Completion and the date of the termination certificate.

INSURANCE TABLE A

Insurance against	Minimum amount of cover or minimum limit of indemnity
Loss of or damage caused by the <i>Contractor</i> to the <i>Employer's</i> property	The replacement cost where not covered by the <i>Employer's</i> insurance. The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance.
Loss of or damage to Plant and Materials	The replacement cost where not covered by the <i>Employer's</i> insurance. The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance.
Loss of or damage to Equipment	The replacement cost where not covered by the <i>Employer's</i> insurance.

	The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance.
The <i>Contractor's</i> liability for 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	<u>Loss of or damage to property</u> The replacement cost <u>Bodily injury to or death of a person</u> The amount required by the applicable law.
Liability for death of or bodily injury to employees of the <i>Contractor</i> arising out of and in the course of their employment in connection with this contract	The amount required by the applicable law

Z 12.2 Replace core clause 86 with the following:**Insurance by the Employer**

86

86.1 The *Employer* provides the insurances stated in the Insurance Table B**INSURANCE TABLE B**

Insurance against or name of policy	Minimum amount of cover or minimum limit of indemnity
Assets All Risk	Per the insurance policy document
Contract Works insurance	Per the insurance policy document
Environmental Liability	Per the insurance policy document
General and Public Liability	Per the insurance policy document
Transportation (Marine)	Per the insurance policy document
Motor Fleet and Mobile Plant	Per the insurance policy document
Terrorism	Per the insurance policy document
Cyber Liability	Per the insurance policy document
Nuclear Material Damage and Business Interruption	Per the insurance policy document
Nuclear Material Damage Terrorism	Per the insurance policy document

Z13 Nuclear LiabilityZ13.1 The *Employer* is the operator of the Koeberg Nuclear Power Station (KNPS), a nuclear installation,

as designated by the National Nuclear Regulator of the Republic of South Africa, and is the holder of a nuclear licence in respect of the KNPS.

- Z13.2 The *Employer* is solely responsible for and indemnifies the *Contractor* or any other person against any and all liabilities which the *Contractor* or any person may incur arising out of or resulting from nuclear damage, as defined in Act 44 of 1999, save to the extent that any liabilities are incurred due to the unlawful intent of the *Contractor* or any other person or the presence of the *Contractor* or that person or any property of the *Contractor* or such person at or in the KNPS or on the KNPS site, without the permission of the *Employer* or of a person acting on behalf of the *Employer*.
- Z13.3 Subject to clause Z13.4 below, the *Employer* waives all rights of recourse, arising from the aforesaid, save to the extent that any claims arise or liability is incurred due or attributable to the unlawful intent of the *Contractor* or any other person, or the presence of the *Contractor* or that person or any property of the *Contractor* or such person at or in the KNPS or on the KNPS site, without the permission of the *Employer* or of a person acting on behalf of the *Employer*.
- Z13.4 The *Employer* does not waive its rights provided for in section 30 (7) of Act 44 of 1999, or any replacement section dealing with the same subject matter.
- Z13.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

Z14 Asbestos

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

AAIA	means approved asbestos inspection authority.
ACM	means asbestos containing materials.
AL	means action level, i.e. a level of 50% of the OEL, i.e. 0.1 regulated asbestos fibres per ml of air measured over a 4 hour period. The value at which proactive actions is required to control asbestos exposure to prevent exceeding the OEL.
Ambient Air	means breathable air in area of work with specific reference to breathing zone, which is defined to be a virtual area within a radius of approximately 30cm from the nose inlet.
Compliance Monitoring	means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
OEL	means occupational exposure limit.
Parallel Measurements	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
Safe Levels	means airborne asbestos exposure levels conforming to the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
Standard	means the <i>Employer's</i> Asbestos Standard 32-303: Requirements for Safe Processing, Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos Containing Material, Equipment and Articles.
SANAS	means the South African National Accreditation System.
TWA	means the average exposure, within a given workplace, to airborne asbestos fibres,

normalized to the baseline of a 4 hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

- Z14.1 The *Employer* ensures that the Ambient Air in the area where the *Contractor* will Provide the Services conforms to the acceptable prescribed South African standard for asbestos, as per the regulations published in GNR 155 of 10 February 2002, under the Occupational Health and Safety Act, 1993 (Act 85 of 1993) ("Asbestos Regulations"). The OEL for asbestos is 0.2 regulated asbestos fibres per millilitre of air as a 4-hour TWA, averaged over any continuous period of four hours, and the short term exposure limit of 0.6 regulated asbestos fibres per millilitre of air as a 10-minute TWA, averaged over any 10 minutes, measured in accordance with HSG248 and monitored according to HSG173 and OESSM.
-
- Z14.2 Upon written request by the *Contractor*, the *Employer* certifies that these conditions prevail. All measurements and reporting are effected by an independent, competent, and certified occupational hygiene inspection body, i.e. a SANAS accredited and Department of Employment and Labour approved AAIA. The *Contractor* may perform Parallel Measurements and related control measures at the *Contractor's* expense. For the purposes of compliance the results generated from Parallel Measurements are evaluated only against South African statutory limits as detailed in clause Z14.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.
-
- Z14.3 The *Employer* manages asbestos and ACM according to the Standard.
-
- Z14.4 In the event that any asbestos is identified while Providing the Services, a risk assessment is conducted and if so required, with reference to possible exposure to an airborne concentration of above the AL for asbestos, immediate control measures are implemented and relevant air monitoring conducted in order to declare the area safe.
-
- Z14.5 The *Contractor's* personnel are entitled to stop working and leave the contaminated area forthwith until such time that the area of concern is declared safe by either Compliance Monitoring or an AAIA approved control measure intervention, for example, per the emergency asbestos work plan, if applicable.
-
- Z14.6 The *Contractor* continues to Provide the Services, without additional control measures presented, on presentation of Safe Levels. The contractually agreed dates to Provide the Services, including the Completion Date, are adjusted accordingly. The contractually agreed dates are extended by the notification periods required by regulations 3 and 21 of the Asbestos Regulations, 2001.
-
- Z14.7 Any removal and disposal of asbestos, asbestos containing materials and waste, is done by a registered asbestos contractor, instructed by the *Employer* at the *Employer's* expense, and conducted in line with South African legislation.
-

C1.2 Contract Data

Part two - Data provided by the *Contractor*

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	0%
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:	
	Job:	
	Responsibilities:	
	Qualifications:	
	Experience:	
Qualification requirements in Appendix A		
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	As per the pricelist

PART 2: PRICING DATA

TSC3 Option A

Document reference	Title	Page no.
C2.1	Pricing assumptions: Option A	18
C2.2	The <i>price list</i>	20

C2.1 Pricing assumptions: Option A

How work is priced and assessed for payment

Clause 11 in NEC3 Term Service Contract (TSC3) core clauses and Option A states:

Identified and defined terms	11	
	11.2	(12) The Price List is the <i>price list</i> unless later changed in accordance with this contract.
		(17) The Price for Services Provided to Date is the total of
		the Price for each lump sum item in the Price List which the <i>Contractor</i> has completed and
		where a quantity is stated for an item in the Price List, an amount calculated by multiplying the quantity which the <i>Contractor</i> has completed by the rate.
		(19) The Prices are the amounts stated in the Price column of the Price List. Where a quantity is stated for an item in the Price List, the Price is calculated by multiplying the quantity by the rate.

This confirms that Option A is a priced contract where the Prices are derived from a list of items of service which can be priced as lump sums or as expected quantities of service multiplied by a rate or a mix of both.

Function of the Price List

Clause 54.1 in Option A states: "Information in the Price List is not Service Information". This confirms that instructions to do work or how it is to be done are not included in the Price List but in the Service Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Service in accordance with the Service Information". Hence the *Contractor* does **not** Provide the Service in accordance with the Price List. The Price List is only a pricing document.

Link to the *Contractor's* plan

Clause 21.4 states "The *Contractor* provides information which shows how each item description on the Price List relates to the operations on each plan which he submits for acceptance". Hence when compiling the *price list*, the tendering contractor needs to develop his first clause 21.2 plan in such a way that operations shown on it can be priced in the *price list* and result in a satisfactory cash flow in terms of clause 11.2(17).

Preparing the *price list*

Before preparing the *price list*, both the *Employer* and tendering contractors should read the TSC3 Guidance Notes pages 14 and 15. In an Option A contract, either Party may have entered items into the *price list* either as a process of offer and acceptance (tendering) or by negotiation depending on the nature of the *service* to be provided. Alternatively, the *Employer*, in his Instructions to Tenderers or in a Tender Schedule, may have listed some items that he requires the *Contractor* to include in the *price list* to be prepared and priced by him.

It is assumed that in preparing or finalising the *price list* the *Contractor*:

- Has taken account of the guidance given in the TSC3 Guidance Notes relevant to Option A;
- Understands the function of the Price List and how work is priced and paid for;
- Is aware of the need to link operations shown in his plan to items shown in the Price List;

-
- Has listed and priced items in the *price list* which are inclusive of everything necessary and incidental to Providing the Service in accordance with the Service Information, as it was at the time of tender, as well as correct any Defects not caused by an *Employer's* risk;
 - Has priced work he decides not to show as a separate item within the Prices or rates of other listed items to fulfil the obligation to complete the *service* for the tendered total of the Prices.
 - Understands there is no adjustment to items priced as lump sums if the amount, or quantity, of work within that item later turns out to be different to that which the *Contractor* estimated at time of tender. The only basis for a change to the (lump sum) Prices is as a result of a compensation event.

Format of the *price list*

(From the example given in an Appendix within the TSC3 Guidance Notes)

Entries in the first four columns in the *price list* in section C2.2 are made either by the *Employer* or the tendering contractor.

If the *Contractor* is to be paid an amount for the item which is not adjusted if the quantity of work in the item changes, the tendering contractor enters the amount in the Price column only, the Unit, Expected Quantity and Rate columns being left blank.

If the *Contractor* is to be paid an amount for an item of work which is the rate for the work multiplied by the quantity completed, the tendering contractor enters the rate which is then multiplied by the Expected Quantity to produce the Price, which is also entered.

If the *Contractor* is to be paid a Price for an item proportional to the length of time for which a service is provided, a unit of time is stated in the Unit column and the expected length of time (as a quantity of the stated units of time) is stated in the Expected Quantity column.

C2.2 the *price list*

The rates and prices entered for each item include for all work and other things necessary to complete the item.

SECTION A

1. Online work price list

Table 1.1: Service costs

Item	Description	Unit	Estimated Quantity	Rate/Month (During normal working hours)	Rate/Month (For outside normal working hours)	Remarks/ Billing basis
1.	Preventative maintenance lifting machinery (<70T overhead cranes)	Per service	960			OEM-aligned and as per the <i>Employer's</i> service procedures (KWM-MW-DMC-001 & KWM-MW-MCM-001); excludes spares. Includes service records updates as per <i>Employer</i> requirements Refer to Appendix D
2	Preventative maintenance lifting machinery (70T to 190T) overhead cranes: Applies to 1&2DMK003PR, 1&2DMM001PR, 1&2DMR001PR, 1&2PMC351PT)	Per service	80			OEM-aligned and as per the <i>Employer's</i> service procedures (KWM-MW-DMK-003; KWM-MW-DMM-001; KWM-MW-DMR-001/002/003; KWM-MW-PMC-001/002/003); excludes spares. Includes service records updates as per <i>Employer</i> requirements

						Refer to Appendix D
3	Preventative maintenance Hand powered lifting devices (chain blocks, lever hoists etc.) (500kg to 5T)	Per service	800			OEM-aligned and as per the <i>Employer's</i> service procedures; excludes spares. Includes service records updates as per <i>Employer</i> requirements
4	Preventative maintenance Hand powered lifting devices (chain blocks, lever hoists etc.) (>5T to 10T)	Per service	400			OEM-aligned and as per the <i>Employer's</i> service procedures; excludes spares. Includes service records updates as per <i>Employer</i> requirements
5	Preventative maintenance hoist (500kg to 10T)	Per service	200			OEM-aligned and as per the <i>Employer's</i> service procedures; excludes spares. Includes service records updates as per <i>Employer</i> requirements
6	Statutory inspections lifting beam (1T to 10T overhead cranes)	Per inspection	200			OEM-aligned and as per the <i>Employer's</i> service procedures; excludes spares. Includes service records updates as per <i>Employer</i> requirements
7	Statutory inspections lifting machinery (70T to 190T) overhead cranes: Applies to 1&2DMM001PR)	Per inspection	20			OEM-aligned and as per the <i>Employer's</i> service procedures (KWM-MW-DMC-001);

						excludes spares. Includes service records updates as per Employer requirements Refer to Appendix D
8	Statutory inspections lifting machinery (70T to 190T) overhead cranes hook dimensions: Applies to 1&2PMC351PT)	Per inspection	20			OEM-aligned and as per the <i>Employer's</i> service procedures (KWM-MW-PMC-001/002/003); excludes spares. Includes service records updates as per <i>Employer</i> requirements Refer to Appendix D
9	Statutory lubrication lifting machinery (70T to 190T) overhead cranes: Applies to 1&2PMC351PT)	Per lubrication	20			OEM-aligned and as per the <i>Employer's</i> service procedures (KWM-MW-PMC-001/002/003); excludes spares. Includes service records updates as per <i>Employer</i> requirements Refer to Appendix D
10	Statutory load and functional tests by LMI	Per test	750			Includes labour (LMI), certification arrangement of support, and service records updates as per the <i>Employer's</i> requirements
15	Functional check monorail (1DMG001PR and 2DMG001PR)	Per functional check	530			Includes labour (LMI), arrangement of support, and

						service records updates as per the <i>Employer's</i> requirements
16	Functional check overhead crane, gantry type with 60T main hook and 5T auxiliary hook (1DMW005PR and 2DMW005PR)	Per functional check	260			Includes labour (LMI), arrangement of support, and service records updates as per the <i>Employer's</i> requirements
17	Tests weights calibration by LMI	Per weight (When required)	1			When required: Includes labour, and certification
18	Rope replacement lifting machinery (500kg to 5T)	Each (When required)	1			Excludes spares. Includes labour (LMI), arrangement of support, and service records updates as per the <i>Employer's</i> requirements
19	Rope replacement lifting machinery (>5kg to 10T)	Each (When required)	1			Excludes spares. Includes labour (LMI), arrangement of support, and service records updates as per the <i>Employer's</i> requirements
20	Rope replacement lifting machinery (>10T to 30T)	Each (When required)	1			Excludes spares. Includes labour (LMI), arrangement of support, and service records updates as per the <i>Employer's</i> requirements
21	Rope replacement lifting machinery	Each (When	1			Excludes spares.

	(>30T to 65T)	required)				Includes labour (LMI), arrangement of support, and service records updates as per the <i>Employer's</i> requirements
22	Rope replacement lifting machinery (>65T to 190T)	Each (When required)	1			Excludes spares. Includes labour (LMI), arrangement of support, and service records updates as per the <i>Employer's</i> requirements
23	Crane rail replacement	Per meter (When required)	1			Excludes spares. Includes labour (LMI), arrangement of support, and service records updates as per the <i>Employer's</i> requirements
24	Crane wheel replacement	Each (When required)	1			Excludes spares. Includes labour (LMI), arrangement of support, and service records updates as per the <i>Employer's</i> requirements
25	Lifting tackle inspection, tagging, colour coding, service, and load testing by LTI	Each	20 Months			Includes tagging, certification, load test, labour (Lifting Tackle Inspector/s LTI), paint and & report refer to Appendix E

Table 1.2: Site De/Establishment

26	Site establishment	Each	1			Inclusive of SKI cabins for offices, ablution, storage etc. Refer to Section 25.2
27	Site de-establishment	Each	1			Inclusive of the removal of SKI cabins for offices, ablution, storage etc. Refer to Section 25.2

Table 1.3: Material, Spares & Consumables

28	All material and spares will be charged at cost + Fee	Fee %				As and when required refer to clause 11.2 (8) Cost + %
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Notes to Online work price list:

- a. The above rates excludes VAT.
- b. See Section 3 for service requirements.
- c. The rates and prices offered is to be fixed for the first 12 months of the contract period. Thereafter, 15% of the applicable rate will remain fixed for the duration of the contract period and 85% of the applicable rate will be subject to adjustment in accordance with Stats SA Table B1 – CPI headline Index. The base date will be a month before tender closing.
- d. The *Contractor's* prices are inclusive of all *Contractor's* costs to execute the service. This includes but is not limited to labour, fire resistant protective and safety equipment / clothing, medicals, FFD, tools, paint/identification used to indicate that equipment has been inspected, compliance with basic labour laws, employee insurance and social benefits, leave payments, income taxes, payrolls, levies, premiums for insurances and all other contributions and benefits associated costs as may be applicable.
- e. The *Contractor* must provide a breakdown of rates provided for activities on Table 1.
- f. The *Contractor's* rates are inclusive of all things necessary to effectively manage its service compliment on site.
- g. The *Contractor* to note that the activities may be required outside of normal working hours.

2. Labour rates

Table 2.1: Labour rates

Item	Description	Charge out rate	Direct	Indirect	Total	Overtime rates (Hourly)	
		Hourly	Hourly	Hourly	Hourly	OT1	OT2
1	Site Manager						
2	Supervisor LMI						
3	Supervisor						
4	Safety Officer						
5	Technician (Package compiler)						
6	Artisan (Millwright/Electrician) (LMI)						
7	Artisan (Millwright/Electrician)						
8	Artisan (LTI)						
9	Semi-skilled labourer						
10	Semi-skilled (LTI)						
11	Assistant						
12	Administrator Clerk						
OTHERS (AS AND WHEN REQUIRED)							
13	Cranes engineer						
14	Project leader						
15	Team leader						

Notes to Labour rates:

- The above rates exclude VAT.
- The *Employer* may at any given time request additional personnel as listed in the above price list.
- The charge out rate is to include charges for payments of at least conditions of service as stipulated in the Basic Conditions of Employment Act, any administration/head office charges related to this contract and *Contractor's* profit.
- The direct rate is the rate paid to the individual.
- The indirect rate is cost paid to institutions by the *Contractor* as legislated, e.g., UIF.
- Overtime can only be worked under the following conditions on an as and when required basis:
 - Overtime will only be paid if the Task Order specifically makes provision for overtime,
 - All overtime must be pre-approved by the *Service Manager*,
 - Not more than 15 hours overtime per week (During online periods),
 - Not more than 4 hours overtime per day over weekdays.
- The *Contractor* shall provide an equation of how overtime will be calculated (OT1 and OT2) as well as any allowances related to the contract.

Section B

1. Restorations and specialised services price list

Table 3: Special service costs

Item	Description	Unit	Quantity	Fee%	Remarks/ Billing basis
1	Load cell calibration	Each	When required		As and when required, refer to clause 11.2 (8) Cost + %.
2	Servicing of Hydraulic pack	Each	When required		As and when required, refer to clause 11.2 (8) Cost + %.
3	Servicing of Variable Speed Drives e.g., ABB and MH Automation Drives – Cost + handling Fee	Each	When required		As and when required, refer to clause 11.2 (8) Cost + %.

Notes to Special Services:

- The above price excludes VAT.
- The actual costs plus handling Fee will be used for assessment of completed work.
- The *Contractor's* prices are inclusive of all *Contractor's* costs to execute the service. This includes but is not limited to labour, fire resistant protective and safety equipment / clothing, medicals, FFD, consumables and materials, tools, paint/identification used to indicate that equipment has been inspected, compliance with basic labour laws, employee insurance and social benefits, leave payments, income taxes, payrolls, levies, premiums for insurances and all other contributions and benefits associated costs as may be applicable.
- The *Employer* requires standard industry costs and handling fee for the service, to be used for assessment.
- All work on Table 3, will be carried out by a Task Order, as and when the *Employer* requires.
- The *Contractor* must provide a breakdown of costs for the completion of services on Table 3.

Table 4: OEM Assessments for crane upgrades

Item	Description	Unit	Estimated Quantity	Rate	Remarks/ Billing basis
1	9 DMP 002 PR: 10T Single girder electric overhead crane	Each	1		Mobilisation: Flights and Transport: Accommodation: Labour: Compilation of report

					detailing all recommended upgrades, spares, special tools, resources, price, and durations to complete the upgrades
2	1 DMW 003 PR & 2 DMW 003 PR: 5T Monorail	Each	2		Mobilisation: Flights and Transport: Accommodation: Labour: Compilation of report detailing all recommended upgrades, spares, special tools, resources, price, and durations to complete the upgrades
3	1 DMW 005 PR & 2 DMW 005 PR: Gantry cranes with 5T Auxiliary hook and 60T main hook	Each	2		Mobilisation: Flights and Transport: Accommodation: Labour rate: Compiled report detailing all recommended upgrades, spares, special tools, resources, price, and durations to complete the upgrades
4	1 DMM 001 PR & 2 DMM 001 PR: 190T Double girder overhead crane	Each	2		Mobilisation: Flights and Transport: Accommodation: Labour: Compilation of report detailing all recommended upgrades, spares, special tools, resources, price, and durations to complete the upgrades
5	1 DMK 003 PR & 2 DMK 003 PR: 130T double girder overhead crane	Each	2		Mobilisation: Flights and Transport: Accommodation: Labour: Compilation of report detailing all recommended upgrades, spares, special tools, resources, price, and durations to complete

					the upgrades
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Notes:

- The prices exclude VAT.
- The *Employer* will provide access to site for the *Contractor's* personnel when the *Employer* requires one of the cranes in Table 4 to be assessed for upgrades.
- The *Employer* will provide spares for the crane upgrades, when the *Contractor* is requested to provide spares, the *Employer* will provide classification and quality requirements.
- The *Contractor* will use the labour rates on Table 2.1.
- All work on Table 4, will be carried out by a Task Order, as and when the *Employer* requires.
- For Tender assessment purposes, the *Employer* requires standard industry costs applicable for the service.
- The Rate required is for the assessment that will have a report as an output, it is not for the actual structural upgrade.

Table 5: Structural upgrades

Item	Description	Units	Quantity	Rate	Remarks/ Billing basis
1	0 DMX 003 PR and 0 DMX 004 PR: 30T Semi-portal crane	Each	2		Mobilisation: Flights and Transport: Accommodation: Labour: Compilation of report for the design, manufacture, and installation of access platform the structure. The report should have required spares/consumables, special tools, resources, price, and durations to complete.

Notes:

- The prices exclude VAT.
- The *Employer* will provide access to site the *Contractor's* personnel when the *Employer* requires one of the cranes in Table 5 to be assessed for upgrades.
- The *Employer* will provide spares for the crane upgrades, when the *Contractor* is requested to provide spares, the *Employer* will provide classification and quality requirements.
- The *Contractor* will use the labour rates in Table 2.1.
- All work on Table 5, will be carried out by a Task Order, as and when the *Employer* requires.
- The Rate required is for the assessment that will have a report as an output, it is not for the actual structural upgrade.
- For Tender purposes, the *Employer* requires standard industry costs applicable for the service.

Table 6: Motor Rewinding and Overhaul

Item	Description	Unit	Quantity	Fee % (Overhaul)	Fee % (Rewinding)	Remarks/ Billing basis
1	Motor rewinding and overhaul (>0.18KW to 0.55KW)	Each	1			As and when required, refer to clause 11.2 (8) Cost + %. Includes balancing and post overhaul report.
2	Motor rewinding and overhaul (>0.55KW to 3KW)	Each	1			As and when required, refer to clause 11.2 (8) Cost + %. Includes balancing and post overhaul report.
3	Motor rewinding	Each	1			As and when required,

	and overhaul (>3KW to 5.5KW)					refer to clause 11.2 (8) Cost + %. Includes balancing and post overhaul report.
4	Motor rewinding and overhaul (>5.5KW to 11KW)	Each	1			As and when required, refer to clause 11.2 (8) Cost + %. Includes balancing and post overhaul report.
5	Motor rewinding and overhaul (>11KW to 22KW)	Each	1			As and when required, refer to clause 11.2 (8) Cost + %. Includes balancing and post overhaul report.
6	Motor rewinding and overhaul (>22KW to 40KW)	Each	1			As and when required, refer to clause 11.2 (8) Cost + %. Includes balancing and post overhaul report.
7	Motor rewinding and overhaul (>40KW to 55KW)	Each	1			As and when required, refer to clause 11.2 (8) Cost + %. Includes balancing and post overhaul report.

Scope of work for motor overall and rewinding

- Sandblast
- Dismantle and assess
- Chemically clean, rewind, varnish, and bake stator
- Balance rotor assembly
- Supply and fit new bearings and seals
- Assemble, test and paint

Notes to Special Services:

- The above price excludes VAT.
- The actual costs plus handling Fee will be used for assessment of completed work.
- The *Contractor's* prices are inclusive of all *Contractor's* costs to execute the service. This includes but is not limited to labour, fire resistant protective and safety equipment / clothing, medicals, FFD, consumables and materials, tools, paint/identification used to indicate that equipment has been inspected, compliance with basic labour laws, employee insurance and social benefits, leave payments, income taxes, payrolls, levies, premiums for insurances and all other contributions and benefits associated costs as may be applicable.
- The *Employer* requires standard industry costs and handling fee for the service, to be used for Tender assessment.
- All work on Table 6, will be carried out by a Task Order, as and when the *Employer* requires.
- The *Contract* must provide a breakdown of costs for the completion of services on Table 3.

General Notes

- The quotations submitted for all cost plus fee% pricing items shall be market related. The *Contractor* to demonstrate this by the submission of at least three quotes for acceptance by the *Employer*.
- Arc flash Personal Protective Equipment (PPE) will be provided by the *Employer*; however, it is the responsibility of the *Contractor* to ensure that employees who are declared competent after completing Arch flash training are provided Arch flash PPE.

- Radiation worker (PPE) and dosimetry will be provided by the *Employer*; however, it is the responsibility of the *Contractor* to ensure that employees who are declared competent after completing Radiation worker course are provided dosimetry and PPE.
- Radiation worker and Arc flash PPE as well as dosimetry provided by the *Employer* shall be used only at Koeberg Nuclear Power Station.
- All work under contract will be carried out by a Task Order, as and when the *Employer* requires it.
- The *Contractor* shall at its own expense comply with the Basic Conditions of Employment Act No. 75 of 1997. The *Contractor* indemnifies the *Employer* against any claims, proceedings, compensation, and cost arising from the *Contractor's* transgression of the Act.
- Unless the *Contractor* informs the *Employer* in writing within the period of reply, after the receipt of a Task Order or any revision thereof, that there is an aspect which is unclear, incorrect, or unacceptable, the *Contractor* shall be considered to have accepted all the terms of the Task Order as issued.
- The *Contractor* shall ensure that the service resources which it provides to the *Employer*, is legitimately qualified, the *Contractor* must verify and ensure that only skilled and qualified staff is supplied to the *Employer* in accordance with the contractual requirements.

C3.1: EMPLOYER’S SERVICE INFORMATION

PART 3: SCOPE OF WORK

Document reference	Title	Page No.
C3.1	This cover page	25
	<i>Employer's Service Information</i>	26

1 Description of the service

1.1 Contract Purpose

The Maintenance Support Services Group (MSS) maintains lifting machinery and lifting tackle at Koeberg Operating Unit. MSS is responsible for the maintenance of approximately 112 overhead cranes and lifting equipment (approximately 100 overhead cranes and 12 winches). Occupational Health and Safety Act Driven Machinery Regulation 18 (DMR18) requires that all lifting machinery, lifting equipment and lifting tackle must be inspected, functional and load tested by a lifting machinery inspector (LMI) and a Lifting Tackle Inspector (LTI), both these are provided through a Lifting Machinery Entity (LME). The *Employer* requires the stated services through a service contract for a period of 60 months at Koeberg Operating Unit. The service extends to all, relevant SANS standards, *Employer's* procedure and OHSA periodic maintenance, preventative maintenance, corrective maintenance, and on an as when required basis the refurbishments and the supply of critical spares for lifting machinery, lifting equipment and lifting tackle at Koeberg Operating Unit. These services are required both online and during outages.

Maintenance Philosophy Compliance

All services must support the *Employer's* core maintenance philosophy, which emphasizes:

- **Productivity**-Timely and efficient execution of tasks;
- **Quality**-Adherence to specifications and rigging accuracy;
- **Safety**-Zero harm to personnel, plant, equipment and the environment.

The *Contractor* shall proactively contribute to a safe and high-performance work culture.

Scope of Services

The *Contractor* shall serve as the site Lifting Machinery Entity (LME) through which the services of Lifting Machinery Inspector (LMI) and the Lifting Tackle Inspector (LTI) shall be provided. The service will include the execution of the *Employer's* preventative, periodic and corrective maintenance. The lifting tackle, and lifting machinery refurbishment, spares and component supply will be provided by the *Contractor* on an as when required basis. The service shall be provided both online and during outages. The service include but is not limited to the following:

1. Planning and execution of lifting tackle and lifting machinery tasks ensuring that adequate resources are assigned to the Scope of Work. Lifting machine means a power-driven machine that is designed and constructed for the purpose of raising or lowering a load or moving it in suspension, but does not include an elevator, escalator or hand-powered lifting device.
2. The statutory inspections, servicing, functional testing and load testing of lifting machinery and lifting tackle in accordance with the Occupational Health and Safety Act (OHSA), Driven Machinery Regulations (DMR-18), and relevant SANS standards such as SANS10375, 4038-1, 4309-06, 4308, 500, 60204 part 32) and relevant *Employer's* procedures at the *Employer's* site.
3. The *Contractor* shall perform the service in accordance with the list and frequency of the *Employer's* maintenance programme.
4. The *Contractor* shall provide capable service resources, in accordance with the *Employer's* requirements, including quality assurance, quality control and safety management, and acceptable supervision for the performance of the service.
5. Perform lifting tackle inspection, servicing, certification, tagging, load testing and colour coding. Lifting tackle simple means nylon slings, ropes slings, eyebolts, shackles, spreaders or similar lifting appliances.
6. Responding to defects and repairing of all identified defects on lifting machinery, lifting equipment, and lifting tackle.
7. Administrative support by ensuring that the information related to the service and defects is captured and adequately stored in accordance with applicable SANS standards, Occupational

Health and Safety Act (OHSA), Driven Machinery Regulations (DMR-18) and applicable *Employer's* procedures.

8. The planning, and execution of refurbishments of lifting tackle and lifting machinery, including but not limited to structural, mechanical and electrical systems on an as when required basis.
9. The supply and installation of critical mechanical and electrical spares and components on an as when required basis for lifting machinery and lifting tackle.
10. The *Contractor* shall keep up to date history documentation for each of the lifting equipment and shall retain documentation for the period prescribed in Occupational Health and Safety Act, Section 18 of Driven Machinery Regulations.
11. The *Contractor* (Supervisor) records all "As Found Conditions", "Corrective Actions", "Measuring & Testing Equipment", "Craftsman" and his signature on the work package. The above information serves as history for the *Employer* when referring to the works.
12. The *Contractor* must keep comprehensive service records and all related history documentation and make it available for perusal by the *Employer* as and when required.
13. The *Contractor* shall submit a weekly report of completed work vs planned work, including defects. Work is not completed until history is captured and confirmed (CNF) on the *Employer's* work management system. A transmittal for daily completed work shall be signed by both the *Contractor's* administrator and the *Employer's* supervisor.
14. Progress meetings shall be held with the *Employer's* Representative or his/her delegate monthly (non-outage periods) and on weekly basis (Outage periods) to discuss any technical details, or concerns.
15. The *Employer's* Representative with the *Contractor* shall prioritize online work and outage, to ensure crane service availability during both non-outage and outage periods. Should a malfunction occur, the *Contractor* is to make every effort to provide the lifting machinery service required to restore plant to operating order, in the shortest time possible.
16. The *Contractor* shall plan and coordinate load testing of lifting machinery and lifting tackle with the *Employer's* Rigging Section. On completion of load testing the *Contractor* shall provide load tests certificates in hard copy and electronic format.
17. No work may be done before the Permit to work (PTW) requirements for the job are in place.
18. No private work is allowed on site by the *Contractor*, and all instructions are subject to approval by the *Service Manager*.
19. Site establishment, effective resource scheduling and pre-job planning to ensure no delays to the *Employer's* scheduled maintenance activities.
20. The *Contractor* shall provide suitably qualified service resources, with PPE (including fire retardant coverall), and suitable tools to execute the service.
21. The *Contractor* shall performance the service in accordance with general site requirements for controlled access and safe working practices.
22. All the *Contractor's* personnel must be qualified Radiation workers (Training will be provided by the *Employer*).
23. During outage periods the *Contractor* must provide 24/7 onsite coverage to support outage activities.

1.2 Interpretation and terminology

The following definitions & abbreviations are used in this Service Information:

Table 5: Abbreviations

Abbreviation	Meaning given to the abbreviation
KNPS	Koeberg Nuclear Power Station
OH&SA	Occupational Health and Safety Act
SAP	<i>Employer's</i> Work Management System (Computerised)
SAQA	South African Qualification Authority
FFD	Fitness for duty
NDO	Normal Day Off
SANS	South African National Standards
SABS	South African Bureau Standards
DMR	Driven Machinery Regulation
LME	Lifting Machine Entity
LMI	Lifting Machine Inspector
TECO'd	Technically completed operations/activities
LTi	Lifting Tackle Inspector
OEM	Original Equipment Manufacturer
OES	Original Equipment Supplier
EMS	Electrical Maintenance Services
IMS	Instrumentation Maintenance Services
MWRG	Mechanical Maintenance Rigging
MWEL	Maintenance Workshop Welding
MWPT	Maintenance Workshop Painting
PTW	Permit to Work
OHSA	(Occupational, Health & Safety Act) regulations

1.3 **Employer's requirements for the service**

1.3.1 **Online Maintenance Service Requirement**

The *Contractor* shall serve as the site Lifting Machinery Entity (LME) through which the services of Lifting Machinery Inspector (LMI) and the Lifting Tackle Inspector (LTI) shall be provided. The service will include the execution of the *Employer's* preventative, periodic and corrective maintenance, functional and load testing activities in accordance with the Occupational Health and Safety Act, Section 18 of Driven Machinery Regulations, various SANS standards (SANS10375, 4038-1, 4309-06, 4308, 500, 60204 part 32) and relevant *Employer's* procedures at the *Employer's* site. This includes but is not limited to:

- a. Overhead Cranes,
- b. Lifting Tackle,
- c. Hand powered lifting Devices,
- d. Calibration of load cells and weights.

The *Contractor* performs the *service* in accordance with the list and frequency provided in the *Employer's* maintenance program. (Refer to the Appendix C – Typical Calendar of Online work scope and Appendix D - List of the Equipment to be serviced, attached as a guide to the type and frequency of activities to be expected).

As part of the Service, it is expected that the Artisans and semi-skilled workers are qualified to operate lifting machinery and are adequately trained and authorized to utilize the following equipment to support the maintenance service and troubleshooting of the cranes and lifting machinery.

- Pendant Crane (Code C31),
- Overhead crane (Code C28)
- Manual Elevated Working Platform, MEWP (Code C55)

Any queries, reports, concerns, and requests resulting from walk downs, unacceptable worker practices, incidents, accidents, and safety concerns will be directed to the Site manager. No work will commence without a work order and it is the *Contractor's* responsibility to ensure that no work is executed prior to the receipt of the required documentation and instructions.

All work shall be performed based on "do-it-right-first-time."

Corrective/Breakdown Maintenance:

The *Contractor* attends to breakdown maintenance as notified by *Service Manager* or via SAP which is the *Employer's* Work Management system. The *Contractor* performs fault finding to investigate the root cause, plans and prepares the remedial maintenance intervention. The billing will be based on spares (if sourced from *Contractor*) and actual labour costs.

1.3.1.1 **Spares and Services**

All services and spares to be supplied as per *Employer's* instruction in support of lifting equipment, crane maintenance and restoration requirements. The *Contractor* shall comply with *Employer's* supplier quality general requirements (238-103).

1.3.2 **Lifting Tackle and hand powered lifting devices inspection, servicing, certification, tagging, colour coding and Load testing**

Lifting tackle: Lifting tackle simply means nylon slings, rope slings, eyebolts, shackles, lifting or spreader beams, tongs ladle etc. as defined in the Occupational Health and Safety Act, Section 18 of Driven Machinery Regulations.

Hand powered lifting devices include chain blocks, lever hoists, hand chain hoists, steel wire rope pullers, winches etc. as defined in Occupational Health and Safety Act, Section 18 of Driven Machinery Regulations.

The *Contractor* is required to conduct lifting tackle inspection, servicing, certification, tagging, load testing and colour coding on 3-month frequency. All inspections and tests to be in line with the SANS standards for the relevant equipment and to reflect as such in the inspection certificates provided by the *Contractor*.

During the 3-monthly inspection and test of the lifting tackle, a quarter ($\frac{1}{4}$) of the inventory of the Hand powered lifting devices are to be serviced as part of the 6 months service and annual Load tested. This equipment is located on different buildings on site, an excerpt of the different lifting equipment with locations is shown as Appendix E. A report shall be provided for inspected lifting tackle and lifting tackle that has failed during inspection shall be disposed off in accordance with the applicable procedure. The *Contractor* may provide an additional team to complete the requirements of this task order, the price for the 3-monthly lifting tackle and hand powered lifting devices remain fixed.

The stated service has historically been accomplished by two lifting tackle inspectors that come to site for a six-week duration,

1.3.3 Outage maintenance service requirements

Over and above the online lifting machinery and lifting tackle services, the *Employer* requires the *services* to extend to provisional planned future outages. In outage periods the amount of work increases due to availability of lifting machinery and lifting tackle that are not available online, furthermore, the increased use of lifting machinery and lifting tackle requires 24/7 site coverage to timeously respond to defects. The *Employer* will provide a work plan for Outage period and the *Contractor* will provide resources to execute the plan. To support these two requirements (online service and outage coverage) the *Contractor* may need to increase personnel head count. Historically the additional personnel consisted of the personnel mixture shown in Table 7.

1.3.4 Historical Workload and service capacity

Based on historical operational data, the scope of the lifting machinery and lifting tackle and related services has included:

- Approximately 895 to 1342 (4 to 6 daily activities) operations during planned outages;
- Approximately 692 to 1038 (3 to 5 daily activities) operations per year during online periods.

The *Contractor* is required to ensure adequate resourcing, planning, and capability to fulfil all service requests in a safe, efficient and timely manner.

1.3.4.1 Online service capacity

Although not prescriptive, it is noted that historically, the effective execution of online activities was consistently achieved using an onsite base team of 11 personnel (see Table 6 below), comprised of execution crews, LMI, supervisor, safety, technician and site administration and support functions. The structure serves as a guide only, the *Contractor* remains fully responsible for determining and deploying the appropriate resource mix necessary to deliver the required service based on the *Employer's* requirements that will be communicated via issuance of a Task Order.

Table 6: Maximum on site base personnel

Base team		
Item	Description	Quantity
1	Site Manager	1
2	Supervisor (LMI)	1

3	Safety Officer	1
4	Administrator Clerk	1
5	Technician	1
6	Artisan (Millwright/Electrician)	2
7	Semi-skilled labourer	2
8	Assistant	2
Total		11

One (1) work technician will compile work packages for both weekly and defects in accordance with the relevant *Employer's* procedures and will also support with defects assessments, planning, determination of required spares, updating of procedures and service notes required for maintaining cranes and lifting equipment.

The Site manager among other things is to support the team and the *Service Manager* administer the contract for the *Contractor*, as well as to liaise with the Lifting Machinery Entity (LME) offices on overhead crane and related components' Original Equipment Manufacturers (OEM) for data and drawings, obsolete spares and any special lifting machinery services as and when required by the *Employer*. The Site manager with input from the *Service manager* will perform resource balancing by ensuring leave is managed to prevent absence of key persons for critical maintenance services and minor projects.

The Supervisor shall be registered as a Lifting Machinery Inspector for overhead crane (LMI) and provide support with Quality assurance, weekly execution resource planning, task allocation, liaise with Work control department and provide oversight and perform OH&SA load tests.

1.3.4.2 Outage service capacity

The role of the additional personnel is to supplement the online capacity, and the 24/7 coverage required to conduct maintenance services, inspections, load tests, and defects resolution on lifting machinery and lifting tackle, refer to Table 7.

Table 7: Maximum additional personnel for Outage

Maximum additional outage personnel		
Item	Description	Quantity
1	Artisan (Millwright/Electrician) (LMI) team leader	1
2	Artisan	1
3	Semi-skilled labourer	2
4	Technical assistant	2
Total		6

The *Contractor* arranges outage personnel to ensure outage work schedule adherence. This may include arranging personnel such that personnel take NDO while they also maintain 24/7 coverage. The *Contractor* in consultation with the *Service Manager* shall draw up the work schedule.

Historically the *Contractor* has always, during the outage maintenance windows maintained a minimum number of personnel as follows. On day shift the minimum personnel has been 2 x technical assistants and 1 x Supervisor (LMI)). The night shift has consisted of a minimum of 1 x Artisan (LMI), 1 x Artisan, 2 x Semi-skilled labourer, 2 x technical assistant and 1 x Technician. This has ensured a 24/7 coverage, as both night and day shift worked 12-hour shifts. The outage and night personnel has consisted of the following, as a minimum (Refer to Table 8):

Table 8: Minimum outage night shift personnel composition

Item	Description	Quantity
1	Artisan (Millwright/Electrician) (LMI)	1
2	Semi-skilled labourer	1
3	Assistant	1
4	Technician / Supervisor	1
	Total	4

The *Employer* shall not entertain any delays or disruptions because of the *Contractor* in the period leading to and during each outage. The *Contractor* is required to effectively schedule his resources to comply with *Employer's* planned completion dates.

Note:

- The *Contractor* can increase or reduce the number of personnel at any time *after* or during the outage maintenance window based on the plant needs.

1.3.4.3 Outage provisional schedule

During the contract period the *Employer* will have 6 (six) Outages based on the 10-year production plan.

Table 9: Provisional outage schedule

UNITS	OUTAGE	START	DURATION	END
UNIT 1	128	09-Nov-26	42 DAYS	20-Dec-26
	129	22-May-28	72 DAYS	01-Aug-28
	130	07-Jan-30	42 DAYS	17-Feb-30
UNIT 2	227	09-Nov-25	150 DAYS	09-Apr-26
	228	30-Aug-27	42 DAYS	10-Oct-27
	229	12-Mar-29	72 DAYS	22-May-29
	230	28-Oct-30	42 DAYS	08-Dec-30

Note:

- The above schedule is only a provisional schedule, and it may change as the *Employer's* 10-year Production Plan is revised. The *Contractor* shall be notified within 30 days if the requirement is to change.
- **The *Contractor* shall obtain its own ministerial determination waiver during Outages for the hours worked exceeding the normal working hours during Outages.**

1.3.5 Crane Restoration and special services

The restoration projects require dedicated resources so that they can be completed within a limited time and without affecting the OH&SA required maintenance, inspections, and services.

The *Employer* is to request the *Contractor* on an as and when required basis to assess cranes and compile a report detailing all recommended upgrades, spares, special tools, resources, price, and durations to complete upgrades. For the list of cranes selected for upgrades, refer to Table 10. Restorations are removed and included based on the production needs of the *Employer*, therefore, the *Contractor* may be requested to assess cranes that are not on Table 10.

Furthermore, there are special services that require specialised skills and resources. Below are a few common services the *Employer* requires from the *Contractor*; the list is not exhaustive.

- Servicing of Drives i.e., ABB and MH Automation Drives – Cost + handling Fee
- Servicing of lifting Equipment e.g., Skj-jacks, Air winches, servicing of specialized gripper devices - Cost +handling Fee,
- Rewinding of crane motor,
- Calibration of test weights,
- Calibration and servicing of load cells,
- Hydraulic Power Pack Servicing

Table 10: Provisional Projects

ITEM	TRIGRAMME	TYPE OF RESTORATION	PLANNED FOR YEAR	LOCATION	CAPACITY	TYPE	MANUFACTURER
1	9DM002PR	Electrical & Mechanical	2026	CRF outside Pump station	20 Ton	Double girder semi-portal overhead crane	DEMAG
2	1/2DMW003PR	Electrical & Mechanical	2027	VVP valve cranes	5 Ton	Double girder electrical overhead crane	
3	1DMW005PR	Electrical & Mechanical	2025	Gantry crane	5 & 60 Ton	Gantry crane	
4	1/2DMM001PR	Electrical & Mechanical	2026	9.5m Turbine Hall	30 & 190 Ton	Double girder electrical overhead crane	CFEM
5	ODMX003/004PR	Access platforms	2026	Decon workshop	10 Ton	Single girder electrical overhead crane	DEWET

1.3.6 Work in controlled areas

The *Contractor* is urged to manage the radiation dose levels of its workforce by working carefully and thoroughly in containment and to strive not to exceed the prescribed radiation dose levels.

Any queries, reports, concerns, and requests resulting from walk downs, unacceptable work practices, housekeeping, incidents, accidents, and safety concerns will be directed to the *Supervisor*. No work will commence without a notifications/work order, and it is the *Contractor's* responsibility to ensure that no work is executed prior to the receipt of the required documentation and instructions.

Note:

- Eskom supervisor will decide which defects to be prioritised as per production plan of the day. The *Contractor* shall maintain its work area clean and tidy condition. Strict control on the number, type and condition of tools are to be maintained to ensure that all tools and remnants or scrap material are removed from affected property before the end of every shift for the duration of the *service*.
- The *Contractor* shall indicate the readiness of the Plant, materials, and documentation to the *Employer*, by informing the *Service manager* in writing that the services may proceed. The *Contractor* shall provide tools to execute the services
- The *Contractor* shall survey the worksite and notify the *Service Manager* of its requirements for work to start.
- The *Contractor* prepares work packages for preventive maintenance activities in accordance with the *Employer's* Maintenance Standard, refer to KSA-147. The *Contractor* in consultation with Work Control, plans and schedule maintenance intervention required to restore malfunctioning plant equipment.
- The *Contractor* shall display all relevant signage and barricading at all sites in accordance with the *Employers'* procedures, KSA-069, KSM-029 and KAA-816.

1.4 FFD Programme

The Fitness for duty (FFD) programme objective is to provide reasonable assurance that all *employees* who are required to perform work on the Koeberg Nuclear Power Station perform their tasks in a reliable and trustworthy manner, are not under the influence of any substance, or suffers from any health impairment which in any way adversely affects their ability to perform their duties safely and

competently. It also gives reasonable assurance that employees (*Contractor* and the *Employer*) have been trained/made aware and their technical competence/awareness has been assessed. These requirements are derived from applicable legislation, regulations, Nuclear Licensing requirements, world best practices and the *Employer's* applicable to the Operator of a Nuclear Power Plant.

The requirements differ depending on contractual stipulations and the specific work that the *employee* is required to perform.

As per OHSA the employee's fitness for duty and safety remains the responsibility of the *Contractor* and not the *Employer* unless it is stipulated otherwise in the SHE specifications of the contract.

After contract award the *Employer's Representative* completes an Occupational Health Services Person Job Specification in accordance with KGA- 075 and Procedure 335-68 for each *Contractor's* employee, which details the occupational conditions of the work activity on site. The specific details when ticked in the job specification inform the induction training the employee needs to complete.

The documentation required and the specific induction training will be indicated on "Appendix F: Application to register for the Koeberg FFD Programme form" (Refer to Procedure 335-68 latest Rev) for each employee. It is the *Contractors* responsibility to timeously book his employees, including subcontractor employees, for entry medical examinations prior to entering the site. Entry medicals form part of Koeberg's mandatory site access FFD requirements.

The *Contractor* ensures that all its employees, including *subcontractors*, brought to site comply with the FFD process requirements prior, during and on completion of all activities. In particular the *Contractor* ensures compliance to the nuclear license requirement that all *Contractor* employees classified as radiation workers on completion of their work period on a nuclear site attends an exit medical examination and receive a final whole-body count administered by Koeberg's Radiation Protection Group. For control purposes the last payment of a contract or Task Order is withheld if the tax invoice is not accompanied by written confirmation of completed exit medical examinations and other FFD requirements.

The *Contractor* and the *Employer's Representative* ensure that permit holders that no longer require access to the Site follow the FFD exit procedure. Failure to do so shall result in the individual being denied access to the Koeberg site in future, and *Contractor* may not be considered for further contracts with the Nuclear Operating Unit.

All FFD related enquiries can be emailed to FFDNOU@eskom.co.za

The Generic training is as follows:

Table 11: Training and durations

Type of training	Duration
Plant Induction Training (PIT)	1 day (if required)
Fitness for Duty Testing (security access screening, drug testing, criminal record verification, etc.) drug testing, criminal record verification, etc.)	2 days (if required)
Medical Verification	½ day (if required)
Safety Induction	1 hour (prior to start of work)
Radiation Workers Training	1 day for Requal 3 days for Initial

The duration of the Generic training will vary according to the experience of the individual. The average duration that should be scheduled and planned for is a maximum of 8 days. The *Contractor* is to liaise with the *Employer's Representative*, prior to the execution of the works, for an appropriate training

period. The above durations are estimates for in person classroom training and can be changed to e-learning with self-study and online assessments of 2 hours.

Technical Training

- Technical FME
- Arc Flash training
- Working at height/Material Handling
- Hazardous chemicals
- Supervisory Program
- Technical Assessments as required

The *Employer* will only be liable for the training costs of the courses, and the *Contractor* will be liable for the labour costs for the course duration. If the *Contractor's* employees fail the course, the *Employer* will not be liable for the cost to repeat the course and the cost of the course will be for the *Contractor's* own account.

The *Employer* reserves the right to evaluate, test and interview all personnel designated to perform the works before the security arrangements are made.

2 Management strategy and start up.

2.1 The *Contractor's* plan for the service

The following items to be considered when providing the service:

- Experiencing time losses e.g., whilst waiting to gain access to controlled zones, obtaining Permit to Work (PTW).
- Plant Safety Regulations (PSR) will be applicable.
- Dose management of workforce will be required (ALARA).
- Attending information sessions of the *Employer* (Monthly)
- Daily toolbox talks, pre job briefings and risk assessment walk downs prior to commencement of work.
- The *Contractor* is to work in accordance with the *Employer's* plans and procedures.
- On contract award date the *Employer* shall inform the *Contractor* of the frequency and detail required in each programme, when and if applicable.
- The *Contractor's* is expected to make use of software project management tools to assist them in the planning and scheduling of their workload and have the functionality to provide the *Employer* with a project plan, in the event of an outage, or a schedule of work for day-to-day activities.
- In the event of an outage or project related work, the original duration, remaining duration, back log, delays experienced etc., are to be clearly reflected in a general planning report.
- The method for reporting on activities in progress is by remaining duration, i.e., the time, in working days, needed to complete the activity from the report date. Once an activity has started, the remaining duration is assessed for each update.
- Resource information for manpower, plant and equipment based on the *Employer's* Site is required. The number of resources will also determine the number of Safety and supervisory personnel. The *Employer* wishes to encourage the *Contractor* not to exceed 6 team members per supervisor.

3 Duties of the *Contractor*

The *Contractor* is required to perform the following duties above its primary function, which is to provide a service to the *Employer*:

-
- The *Contractor* must be registered with the Occupational Health and Safety Commission.
 - Submit to the *Employer* or its appointed Agent a Health and Safety Plan for work to be performed.
 - The H&S plan must include a Risk Assessment of the activities.
 - The H&S plan must be implemented and monitored to ensure its integrity.
 - Details of its appointed Health and Safety Committee members must be included and appointed in writing.
 - The *Contractor* in writing must appoint all competent person/s.
 - The *Contractor* shall comply with the Occupational Health and Safety Act (Act No. 85 of 1993)

The successful *Contractor* shall ensure the health, safety and well-being of his/her crew and staff, as well as any other people who may be affected by its activities with reference to its performance of this work. The *Contractor* shall therefore take all necessary precautions for the protection of its staff for the safe execution of works. It shall further comply with any site and/or project specific safety rules which are enforced within the proposed area of work by *Employer*.

Failure to wear an item of PPE at any time while working on the Site shall result in the offender being removed from the KNPS premises.

4 Access Formalities

The *Contractor* is required to supply all the necessary tools, materials, and equipment, including all safety PPE to execute the job safely, as per *Employer's* acceptable standards.

5 Management meetings

The *Contractor* attends meetings as requested by the *Service manager*.

Either Party may request to convene a meeting using or quote applicable communication clause in NEC3 Term Services Contract.

Table 12: Management meetings

Title and purpose	Approximate time & interval	Location	Attendance by:
Overall scope completed for the month & do assessment	Monthly at 12H00	Framex Boardroom	<i>Service manager & Contractor's Site Manager</i>
Overall contract progress and feedback	Quarterly	Framex Boardroom	<i>Service manager, Contractor & Maintenance cranes relevant Stakeholders</i>
SD&L (Supplier Development & Localisation) requirements	Annually	Framex Boardroom	<i>Service manager, Contractor & Crane maintenance relevant Stakeholders</i>

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

Table 13: Regular meetings

Title and purpose	Approximate time & interval	Location	Attendance by:
Risk register and compensation events	As and when required	<i>Service Manager Office</i>	Site manager, Supervisor and <i>Service Manager</i>
Overall contract progress and feedback	Monthly on 2 nd Monday at 10h00	<i>Service Manager Office</i>	<i>Employer, Contractor, and Supervisor</i>
Safety meeting	Monthly	<i>Service Manager Office</i>	<i>Service Manager, Safety officer, Site Manager</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.
- The *Employer* will notify the *Contractor* of any management meetings to be held.
- The *Employer* shall meet with the *Contractor* daily to hand over the activity list that must be performed. The *Contractor* shall be required to perform these activities in accordance with all relevant information, guidelines and restrictions contained in each work package, and report back to the Supervisor daily.

6 Contractor's management, supervision, and key people

All work carried out by the *Contractor* under or in connection with this contract makes use of competent and professional knowledge that conforms to internationally accepted standards and practices prevailing in the industry.

The team composition (refer to Table 6, 7 and 8) to provide the *service* shall be qualified as per SAQA (South African Qualification Authority) registered unit standards and in adherence to the legal requirements of SANS 10147 (SABS 0147). The competencies and duties of individual team members are given as Appendix A.

6.1 Responsibilities of the Contractor's Site management

- The *Employer* expects the Supervisor of the *Contractor's* to ensure and drive compliance in terms of the maintenance philosophy of the *Employer*, as detailed in the section entitled "*Employer's Expectations*".
- As a minimum requirement, the *Employer* expects the *Contractor's* Supervisor to have the authority to make decisions on the operational and managerial aspects of the service.
- The responsibilities of the Supervisor shall further include:
 - Attendance of feedback meetings, safety meetings, and meetings with the *Service Manager* or his delegates.
 - Ability to converse with own staff and *Employer's* staff on technical and operational matters.
 - Ability to represent the *Contractor* on the *Employer's* management meetings when so required.
 - Administer all planning and reporting requirements.
 - Ensure sufficient quality control and assurance.
 - Ensure that all Construction regulations and OHSA requirements are complied with.
 - Ensure that all required permits are requested and issued prior to the commencement of work.
 - Human resource development activities, recruitment, industrial relations issues.
 - Conduct monthly safety meetings with its staff, and documentation of all safety issues.
 - Be actively involved in its staff's health & safety issues.
 - Administrate all payroll activities and issues that may arise.
 - Monitor and control its staff's sick leave and absenteeism record.
 - Administrate all quotations and invoices from Site.
 - Be fully conversant with New Engineering Contracts (NEC) philosophy.
 - Be the single point of contact for all *Employer* requests concerning its staff.
- The *Contractor* and his employees are required to conduct themselves at all times in a professional manner. It must be noted that the *Employer* will take immediate steps to institute criminal investigation in the event of any suspected criminal acts. Any criminal acts by the *Contractor's* personnel will be grounds for termination of this agreement.
- The *Contractor* is required to immediately clean and remove any debris and rubble from any work done under this agreement to ensure the *Employer's* premises are left in a clean condition after completion.

6.2 Site inspection, meetings, and discussions

- Site meetings between the *Contractor* and the *Employer's* Management shall be held monthly. Inspections by senior members of the *Contractor's* staff shall be carried out monthly, accompanied by a representative of the *Employer*.

-
- Problems discussed and pointed out during such inspections shall be noted and actions taken on these points.

6.3 Labour relations

- The *Contractor* shall not remunerate his employees at less than the proclaimed statutory wage. The *Employer* can at any time request the financial records of the *Contractor* to do an audit on the actual payments to his employees.
- All personnel shall be suitably qualified and have the necessary experience to perform the required works. The *Employer* reserves the right to evaluate, test and interview all personnel designated to perform the works before the security arrangements are made.
- The *Contractor* is to arrange these interviewing and Technical Assessment sessions prior to the commencement of the applicable Task Order possession.
- The *Employer* reserves the right to object to any personnel who, in terms of this Contract or any *Employer* policy, is deemed to be incompetent, negligent, guilty of misconduct or otherwise unsuitable.
- The *Contractor* shall immediately remove such personnel from the premises or register and provide a satisfactory replacement if required.
- The *Contractor* agrees not to approach, source or recruit from Others on site.

6.4 Responsible persons (RP) as per Plant Safety Regulations about relations

- The *Contractor* is required to have at least 1 (one) employee/supervisor (during non-outage periods) and 2 (two) employees/supervisors (during outage periods) authorized as a responsible Person in accordance with Plant Safety Regulations. These employees should have completed the applicable plant safety courses, plant safety regulations course and the oral examination.
- The legislative authorisation of a Responsible Person at Koeberg Nuclear Power Station must be accompanied by at least 2 (two) years plant experience.

6.5 Outage specific requirements

- The team makeup and organogram for outage periods is shown in Section 1.3.3.1 in Tables 7&8.
- Work during a planned shutdown shall require 24-hour representation by the *Contractor*. The *Employer* further requires that all outage supervisors shall be present on Site at least 14 (fourteen) days prior to the Shutdown start date to familiarize themselves with the conditions, identification of work sites, and undergo the necessary training. All tools and material shall be made available to the *Contractor* at least 14 (fourteen) days prior to execution.
- The *Employer* shall not entertain any delays or disruptions because of the *Contractor* in the period leading to and during each outage. The *Contractor* is required to effectively schedule his resources to comply with the *completion dates* prescribed by the *Employer* and ensure that dose levels stay below the required maximum measurements. The *Contractor* shall ensure that its resource loading is within the *Employer's* requirements, that supervisory and other personnel are suitably competent, and that the required ratio of supervision to workforce (10:1) is always complied with.
- All resources utilised during an outage shall pass the *Employer's* Radiation Workers course prior to the start date.

7 Documentation control

All site documentation to be signed off by the *Supervisor* prior to submission to the *Employer* representative.

The *Employer's Service Manager* or his delegated representative meets the *Contractor* daily to hand over the activity list that must be performed. The *Contractor* is required to perform these activities in accordance with all relevant information, guidelines and restrictions contained in each work package, and report back to the *Service Manager* or his delegated representative daily.

All contractual communications will be in the form of properly compiled letters or forms attached to e mails and not as a message in the e-mail itself.

8 Invoicing and payment

The Z clauses (Z7) refer to invoicing procedures.

8.1 Assessments

To enable payment against each applicable Task Order, the *Service Manager*/Employer's Representative and the *Contractor* must sign next to each line acceptance of the service, materials or goods delivered on the applicable SAP generated Task Order. The signed copy of this SAP-generated Task Order must be forwarded (emailed or delivered) to the contract management group on site. If it is being emailed, it must be sent to the email address: Assessments@eskom.co.za

8.2 Address of Invoice

The invoices of suppliers are to be emailed to the: "Local Eskom Invoices email" – which is: invoiceseskomlocal@eskom.co.za

8.3 Particulars to be included on the Supplier's Tax Invoice

- The name and address of the Contractor
- The date of the invoice
- An invoice number
- Contractor's VAT registration number (if applicable)
- Employer's VAT registration number
- Reference to Contract and/or Task Order number
- A descriptive title of the service covered by the Invoice and/or the Contract's Assessment

8.4 Compensation events

The contractor provides quotations for compensation events detailing the following items as a minimum:

- Introduction.
- Executive summary.
- Contractual bases of compensation event.
- Details of compensation event.
- Assessment of compensation event.
- Conclusion.
- Accepted programme showing impact on delay-if the programme for remaining work is altered by the compensation event.
- Appendices
- Early warning- if applicable
- Notification
- Instruction to submit alternative quotation or to submit a revised quotation- if applicable
- Any other document the Contractor may consider applicable.

9 Contract change management

The standard forms of the contract will be used as the templates for the communication between the *Employer* and the *Contractor*. With any change in *Service Manager* an early warning is to be issued to the *Contractor* or the *Employer* at any point in the contract.

10 Records of Defined Cost to be kept by the *Contractor*

The *Service Manager* shall be provided in hard copy and an electronic a copy of the records for compensation event management.

11 Design and supply of Equipment

Any special equipment for works in radiological areas shall be furnished by the *Employer* at no cost to the

Contractor except as specified otherwise or unless otherwise agreed by the Parties. Any additional special equipment furnished by the *Contractor* which in the *Employer's* opinion cannot be recovered (whether decontaminated or not), will be charged to the *Employer* at its replacement value which value shall be determined by mutual agreement at the time when the equipment is furnished by the Supplier. The *Employer* and the *Contractor* will consult each other to decide whether any such item can still be used, notwithstanding that it has been contaminated.

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

12.1 Equipment

The *Contractor* shall keep an updated list of its tools, that will assist with the removal of the tools at the end of the *contract* period. All the *Employer's* tools the *Contractor* used during the contract period shall be returned in functional order except for age-related wear.

12.2 Information and other things

All drawings and manuals issued to the *Contractor* or for spares procured for the *Employer* shall be remain the property of the *Employer*.

13 Management of work done by Task Order

The *Contractor* carries out the service taking due cognisance of the following constraints, as applicable to the services:

- A SAP task order, together with an instruction from the *Service Manager* to perform a service is the *Service Manager's* notice to the *Contractor* to carry out a service;
- The *Contractor* does not perform any work without a SAP task order accompanying the *Service Manager's* instruction to provide a service;
- The *Contractor* performing work without a SAP task order is done at the risk of non-payment by the *Service Manager*;
- The *Service Manager* may not issue a SAP task order after contract validity end date unless the contract is modified and that the *Contractor* has received and agreed to a notification letter stating the conditions of modification;
- Work Management schedules the activities and the *Contractor* prepares and executes the activities as per the work order generated by SAP PM Program and applicable working procedures.
- Work shall only start when the *Contractor's* Responsible Person (RP) has signed the relevant Permit to Work (PTW), with all safety precautions in place.
- No work may start unless the *Contractor's* RP has conducted a pre-job briefing, an authorised work package has been issued to the *Contractor* personnel and the *Contractor* personnel have signed the workers register.

- The *Service Manager* shall at any time during the service period instruct the *Contractor* to carry out additional work which is part of the service and/or which is of an emergent or emergency nature.
- The rework shall be based on assessments performed by both parties and shall be penalised depending on the outcome of the investigation, following mutual agreement between the Service Manager and the *Contractor*.
- The two men rule applies for all activities and no work shall be performed without direct supervision.
- The *Contractor* shall do a walk-down of the plant post maintenance intervention to ensure that the plant is left in a satisfactory and acceptable condition.

14 Health and safety, the environment and quality assurance

14.1 Health and safety risk management

- The *Employer* expects the *Contractor* and his personnel to perform their service in accordance with the prescribed safety regulations and legislation. Toolbox talks, the upkeep of a Safety Register and the attendance of safety meetings are mandatory. *Contractors* are urged to encourage a safety culture amongst their personnel and strive to maintain an impeccable safety record.
- All the *Contractor's* personnel comply with the *Employer's site* regulations, general safety procedures and specifications, applicable Construction Regulations, and the contents of the OHS Act.
- The *Contractor* ensures the safety of all persons working in the working areas. Precautions are taken to prevent any objects or waste from falling.
- Due to the nature of the service, the utmost care should be taken when working from heights. Safety harnesses and correct PPE shall always be mandatory. The *Contractor's* staff will further be required to use the correct tooling as intended by the trade.
- Site health and safety meetings shall be held periodically, and the attendance of the *Contractor's* safety officer/management representative is mandatory.
- The *Contractor* ensures the health and safety of all persons working in their working areas and precautions are taken to prevent any objects or waste from falling.
- The *Contractor* shall submit a site-specific Safety, Health and Environmental (SHE) File which shall contain all related documentation specific to the scope of work. The SHE file shall be approved prior to work commencing; and no work shall be permitted until the SHE file is approved by the *Employer*.
- The upkeep of the Safety, Health and Environmental (SHE) File is mandatory.
- Fire resistant PPE shall be worn on site.

14.2 Environmental constraints and management

- The *Contractor* ensures that all goods, services and works supplied in terms of this contract conform to all applicable environmental legislation (ISO 14001) and to the *Employer's* environmental specifications.

15 Quality Requirements

The scope of works cover in this contract are classified as Q3/L2 and the applicable Quality Requirements for these works are stipulated in the Quality Specification 238-103 Rev 3.

The supplier shall have and implement a Quality Management System which is in conformance with ISO9001:2015 as a minimum.


Muzi Lushaba 
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- Any further quality assurance requirements and associated control documentation specific to a Task Order is provided by the *Service Manager* for *Contractor* acceptance before work commences on the Task Order.
- The *Service Manager* reserves the right to at any time audit and/or monitors the control between the *Contractor* and Subcontractors, as well as the performance of the *Contractor's Subcontractors*. Such audits are done by prior notification and in liaison with the *Contractor*
- The *Contractor* compiles and submits to the *Service Manager*, for acceptance, a Quality Control Plan (QCP), showing all agreed hold, witness and verification points prior to commencement of the works.

16 Procurement

16.1 B- BBEE

The *Contractor* must comply with

a) B-BBEE Requirements

As a minimum, the tenderer will be required to maintain or improve their B-BBEE Recognition Level for the duration of the contract.

16.2 SDL

Refer to the attached SDL strategy

The *Contractor* complies with and fulfils the *Contractor's* obligations in respect of the SDL strategic requirements stated and agreed upon as in the contract. The *Contractor's* SDL requirements are given below:

Objective Criteria (Condition for contract award)

a) Job Opportunities

Tenderer to also provide breakdown of jobs to be created and/or retained in this table:

Number of Jobs to be created	Number of Jobs to be retained

Tenderer to also provide breakdown of jobs to be created and/or retained in this table:

Category	Jobs to be created
Total	

b) Local Procurement Content

Local Procurement Content" refers to value added in South Africa by South African resources. Where a single contract involves a combination of local and imported goods and/or services, the tender response must be separated into its components as per the Price Schedule included with the tender documents. **Local procurement content is total spending minus the imported component.**

Local Procurement Content	Eskom Target	Tenderer Proposal
	100%	100%

c) Skills development

For this transaction, suppliers can indicate commitment to skills development on the table below:

Eskom's Target	Tenderer's Proposal
2 x Semi-skilled to be trained as Tradesmen	
1 x Artisan – to be trained as an LMI	

Note that these targets for skills development candidates categorically exclude Eskom employees and registered learners. Tenderers are required to take full responsibility for the total cost of developing the requisite skills, and Eskom shall not make any financial contribution towards the fulfilment of this obligation. Tenderers also are advised to approach their relevant SETAs to access grants, subsidies and incentives as well as South African Revenue Services for tax rebates that are earmarked for skills development initiatives.

The *Contractor* shall keep accurate records and provide the *Service Manager* with reports on the *Contractor's* actual delivery against the above stated SDL criteria.

The *Contractor's* failure to comply with his SDL obligations constitutes substantial failure on the part of the *Contractor* to comply with his obligations under this contract.

17 Plant and Materials

17.1 Specifications

- All spares and equipment that are to be replaced should be as per existing specification. If a spare or equipment is obsolete an equivalent may be presented to *Service Manager* for approval.
- The *Contractor* familiarise itself with the listed *Employer's* procedures and public Standards applicable to the Contract. The *Employer* shall transmit the applicable procedures and guidelines when required by the *Contractor* once the contract is concluded and awarded. Other applicable procedures and documents will be submitted to the *Contractor* on an as and needed basis.

Procedure	Revision	Title
<i>Employer's procedures and guidelines</i>		
KSA-119	Latest	Management and control of supplemental workers at Koeberg Nuclear Power Station
KSA-109	Latest	Requirements for ACCESS Authorisation at Koeberg Nuclear Power Station
KSA-147	Latest	Investigating, compiling and execution of Maintenance work packages
KSA-014	Latest	Requirements of Maintenance Quality Control
KSM-015	Latest	Maintenance History Recording
KSA-069	Latest	Foreign Material Exclusion
KSA-021	Latest	Standard for In-Service Inspection at Koeberg Nuclear Power Station
KAA-640	Latest	Control of Items leaving <i>Site</i> for repair or service
KAA-641	Latest	Control of Receipt of Materials
KWM-MW-DMC-001	Latest	Handling equipment having a capacity of less than 70 Tons B-Service
KWM-MW-DMK-003	Latest	190T Cask Handling crane service and load test
KWM-MW-DMM-001	Latest	190T-50T Travelling Cranes (A-Service, B-Service & C-Service)

KWM-MW-MCM-001	Latest	9DMP001/002PR (30T&20T), 9DMM001/002PR(20T) B-Service
KWM-MW-PMC-001	Latest	Auxiliary crane 1/2PMC352PT B-Service
KWM-MW-PMC-002	Latest	Auxiliary crane 1/2PMC352PT (Electrical service)
KWM-MW-PMC-003	Latest	Auxiliary crane 1/2PMC352PT C-Service
KWM-MW-DMR-001	Latest	Polar crane B-Service-Mechanical
KWM-MW-DMR-002	Latest	Polar crane B-Service-Electrical
KWM-MW-DMR-003	Latest	Polar crane A-Service, Pre-operational Inspection and load test
KSA-667	Latest	Processing a PTW
36-681	Latest	Plant Safety Regulation
Management Directive 57	Latest	Certificate of lifting machine operator's competence and use of lifting machines and lifting tackle
KSM-030	Latest	Inspection and Storage Requirements of Load handling Equipment
KSA-132	Latest	Lifting and Rigging Program
32-421	Latest	Eskom Lifesaving Rules
KSA-137	Latest	Training requirements and competence criteria for Supplemental personnel requiring access to Koeberg
KGT-040	Latest	Certification, Qualification and Proficiency of load handling personnel
238-103	Latest	Supplier Quality General Requirements
DSG-310-087	Latest	Generic Service Specification
COM 335-3	Latest	Conduct of Maintenance
335 – 67	Latest	Fitness for Duty Requirements for the Koeberg site
335 – 68	Latest	Fitness for Duty process for Contractors who are required to perform work inside the Owner Control Area of KNPS
KSA-137	Latest	Training requirements and competency criteria for supplemental personnel requiring access to Koeberg
Various	Latest	Service Notification
Various	Latest	Maintenance Working Procedures & Maintenance Manuals
Various	N/A	Maintenance Manuals
KAA-721	Latest	On Line Work Management Process
Public Standards and guidelines		
SANS10375	Latest	The inspection, testing and examination of overhead cranes
SANS4038-1	Latest	Inspection of ropes); Load test procedures. Overhead cranes; Jib cranes; Monorails. Recommended maintenance schedule.
SANS4309-06	Latest	Cranes - Wire ropes - Care and maintenance, inspection and discard
SANS4308	Latest	Cranes and lifting appliances - Selection of wire ropes
SANS500	Latest	Inspection, testing and examination of hand -operated chain blocks and lever hoists
SANS60204	Latest	Safety of machinery - Electrical equipment of machines
OHS Act Section 18	Latest	Driven Machine Regulations

ISO 14001	Latest	Environmental management systems – Requirements with guidance for use
ISO 14004	Latest	Environmental management systems-General guidelines on principles, systems, and support techniques

17.2 Correction of defects

In attending to break downs or general defects the *Contractor* shall assess the defects to determine the root cause. Where a component has failed the *Employer* shall provide a spare to replace the defective component to allow for timeous resolution of the defect. Further assessment shall be performed on the defective component to determine if it could be refurbished for reuse.

17.3 Contractor's procurement of Plant and Materials

The *Employer* supplies all the spares and consumables that are required to support the service unless otherwise stated. In the event, that the *Contractor* supplies spares the engineering classification and the procurement specification for the spares will be assigned on an as and when required basis; as well as the fixed handling fee applies whilst the cost of spares varies. The *Contractor* provides 3 (three) quotes and submits to the *Employer* for approval before the actual spares are procured. The *Contractor* shall submit invoices for the spares procured before monthly assessments can be performed. Where these items need to be priced for, the *Contractor* should in his quotation include for where required, all material, labour, electrical works, up to 15m of electrical cabling, including for soft drilling and grinding on brick wall or drywall.

17.4 Tests and inspections before delivery

- Plant and Materials supplied by the *Contractor* are new, free of defects and fit for the purpose to which they are intended to be used as described in the Task Order.
- The *Contractor* notifies the *Service Manager* to grant approval for the procurement of spare(s) or consumables before items are procured.
- The *Contractor* adheres to the *Employer's* process for the procurement of spares, i.e. request for specification and receipt inspection when the spares are delivered.
- The *Contractor* submits 3 (three) quotes to the *Service Manager* for spares required.
- The spares supplied by the *Contractor* must follow the receipt inspection process before utilised on the plant and the receipt inspection number must be recorded in the work package history page for traceability purposes

18 Working on the Affected Property

- The *Contractor* complies with the Nuclear Energy Act 92 of 1982, the National Key Points Act 102 of 1980, and the Protection of Information Act 84 of 1982 and in general with all laws, regulations, bye-laws and requirements of local and other authorities which may be applicable to the works and as amended or replaced.
- The *Contractor* complies with the *Employer's* Radiological Safety Regulations Programme, and in general, the whole framework of plant rules and regulations which may be in force at the *Employer's* facilities all the time.
- At the site, the *Contractor* shall at all relevant times be under the authority of the *Employer's* Power Station Manager for the purpose of giving effect to the provisions of the above two Clauses hereof. However, this does not in any way relieve the *Contractor* of his obligation to comply with the relevant legislation, and the failure of the *Employer's* Power Station Manager to act in any specific manner will make him or the *Employer* liable in any way whatsoever.

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- The *Contractor* complies with the Basic Conditions of Employment Act No. 75 of 1997. The *Contractor* indemnifies the *Employer* against any claims, proceedings, compensation and cost arising from the *Contractor's* transgression of the Act.

19 *Employer's* site entry and security control, permits, and site regulations

- All personnel must have a valid identification document (green identity document) or passport. All personnel must be cleared to work at the Site by the South African authorities, prior to being cleared as a temporary worker. Allow 14 days for clearance. Security clearance or refusal thereof will not constitute a compensation event.
- On a daily routine, all personnel access and leave the Site via the security-controlled access point, where all are subjected to security screening procedures.
- Application for a temporary worker permit requires the following documentation from the *Contractor*:
 - Certified RSA ID copy or Passport;
 - A proof of address not older than 3 months.
 - The contact details of the individuals;
 - On the day of the site entry the individuals are required to be in possession of their ID or driver's licence.

- **List of *Employer* specific training completed**

The *Employer* has a database, which makes available all the training records of individuals whom have previously worked at the *Employer's* Site. Access to this database will be provided to the *Contractor* at the Contract Date for future use. Should any of the *Contractor's* employees have completed any of the necessary training previously, these records can be requested from the *Service Manager*.

- **Screening form**

Copies of valid SA identity documents or valid passports in respect of foreign nationals of the *Contractor's* personnel are required to accompany the application forms.

- **Security check points**

Prior to access to Site, the *Contractor* passes through various security checkpoints, viz. Entrance at the R27 access gate, entrance at the Duynfontein entrance and at Access Control Point 1 (ACP-1).

All temporary worker/visitors permits are issued at ACP-1.

- **Vehicles and tools/equipment**

All equipment and tools are subject to a security screening before they are allowed on the Site. All equipment and tools are listed and specified before they are brought on Site. This list serves as evidence for removal permits upon Completion of the services. Vehicles are only allowed on Site if justification is provided to the *Employer* that such a vehicle is essential to provide the service.

- **Security screening**

All radiation workers, prior to them being allowed to commence work under the *service*, satisfactorily pass security screening by the *Contractor* in terms of the *Contractor's* own security regulations and the *Contractor's* conditions of employment.

All the *Contractor's* personnel are subject to and conform to the *Employer* at KNPS's security system and processes.

When requested by the *Service Manager*, the *Contractor* furnishes the *Service Manager* with the curriculum vitae, security records, police clearance, and where applicable, medical records and radiation exposure histories of all personnel.

A valid South African identity document or a valid passport in respect of foreign nationals is required for a security permit to gain access to the *Employer's* premises.

The *Contractor* complies with the stipulations of the Immigration Act (Act 13 of 2002) and the Immigration Amendment Act (No 19 of 2004, Section 11 (2) Visa, and Temporary Residence Permit) that stipulates requirements that requires foreign workers:

- Must be in possession of a valid passport when entering the Republic of South Africa (RSA);
- Must access the RSA through an official "Port of Entry", and
- Must have a "Letter of Invitation" to work at KNPS received from the *Contractor*.
- The violation of any security measures will result in the withdrawal of access permits.
- The *Contractor* remains responsible for the retrieval and return of all the *Employer's* security permits upon Completion or earlier termination of the contract. A cost of R150,00 per permit will be levied on the *Contractor*, should permits not be returned after Completion or earlier termination of the contract

20 People restrictions, hours of work

20.1 Timing and Planning

All work will be coordinated by an Eskom *Supervisor* dedicated to the Maintenance Support Services (MSS) It may be required that overtime be worked, this will be communicated to the *Contractor* by the *Service Manager* as applicable.

On-line

Monday – Thursday
07h30 – 16h35
Friday

07h30 – 13h30 (no lunch break)

Last Friday of the month

07h30 – 12h00 (no lunch break)

The duration of the contract is 60 Months (5 Years)

Outage

Monday – Sunday
07h00 – 19h00 (day shift)
19h00 – 07h00 (night shift)

Or

06h00 – 18h00 (day shift)
18h00 – 06h00 (night shift)

20.2 Shift Regime

- It may be required that shifts be worked, and this will be communicated by the *Service Manager* as applicable.
- Three weeks prior to start of an Outage, the *Contractor* must submit a list of new staff that will be used for the execution of work during the Outage.

NOTE: The list of names submitted (individuals) shall not be changed during Outage period unless instructed by the *Service Manager*.

21 Health and safety facilities on the Affected Property

Fire retarded Personnel protective clothing as specified in the Act for all work, except work in the radiological controlled zone and Arch Flash, is provided and is kept in good order by the *Contractor*. Protective clothing for work in the controlled zone and Arch Flash areas is prescribed and is supplied by the *Employer*.

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- First aid facilities shall be provided by the *Employer* at its medical centre during normal office hours.

22 Environmental controls, fauna & flora

- The *Contractor* complies with the environmental criteria and constraints
- In performing the service, the *Contractor* is required to co-operate with Others when sharing the Affected Property. The *Contractor* co-operates with and does not delay, impede, or otherwise impair or endanger the work of Others.
- The *Contractor* always maintains a harmonious relationship with and co-operates with the *Service Manager* and all his suppliers and sub-suppliers or their employees who may be involved in work within the Affected Property.
- Requirements for liaison with and acceptance from statutory authorities or inspection agencies are not initiated without the *Employer*'s consent. It is expressly agreed that the *Employer* is responsible for dealing with the National Nuclear Regulator.
- Liaison with and acceptance from statutory authorities:
 - Each Party is responsible for all dealings with government and local authorities relating to its' role in terms of the contract and obtains and maintain at its' own expense such permits, licenses and authorisations as may be required in this regard

23 Records of *Contractor*'s Equipment

- All equipment and tools are subject to a security screening before they are allowed on the Site. All equipment and tools are listed and specified before they are brought on Site. This list serves as evidence for removal permits upon Completion of the services. Vehicles are only allowed on Site if justification is provided to the *Employer* that such a vehicle is essential to provide the *service*.
- The *Employer* supplies all the spares and consumables that are required to support the service unless otherwise stated. In the event, the *Contractor* supplies spares; a fixed handling fee applies whilst the cost of spares varies. The *Contractor* provides 3 (three) quotes and submits to the employer for approval before the actual spares are procured and submits invoice(s) for the spares procured before monthly assessments can be performed.

24 Equipment provided by the *Employer*

- The *Employer* shall supply all water and electric power points, excluding extension leads to execute the works and all the required permit including a pre-job brief of all the hazards associated with the area and equipment in the area.

25 Site services and facilities

25.1 Provided by the *Employer*

- Working procedures, Drawings and Permit to Works (PTW) facility.
- Access to working and training areas for personnel and equipment.
- Maintenance and re-qualification of *Employer*'s provided equipment.
- Activity co-ordination at outage control level.

-
- Waste disposal facilities for generated waste.
 - Air supply of approximately 7 bar.
 - 230V 50 HZ electrical supply.
 - 380V 50Hz, 3 phase power supply in containment where applicable.
 - Access to the *Employer's* equipment documentation and procedures.
 - Temporary storage areas.
 - Dect phones, Telephone lines, if available.
 - Demineralised water.
 - Decontamination services.
 - Crane, scaffolding, forklift and rigging support.
 - Load test weights.

25.2 Provided by the *Contractor*

- The *Contractor* supplies the skills categories as requested to undertake and complete lifting machinery and lifting tackle activities within maintenance schedule. The *Contractor* ensures that the resources supplied meet or exceed the qualifications and competency level requirements. And that any replacement worker shall supply a CV for approval by the *Service manager*.
- The *Contractor* supplies SKI cabins or similar structures for temporary offices, storage, ablution and or whatever is accessed by the *Contractor* and approved by the *Service Manager* to be necessary for safe execution of services and for site establishment.
- The *Contractor* shall provide calibrated tools and instruments applicable and necessary to perform the service.
- The *Employer* supplies all the spares and consumables that are required to support the service unless otherwise stated. In the event, the *Contractor* supplies spares; a fixed handling fee applies whilst the cost of spares varies. The *Contractor* provides 3 (three) quotes and submits to the employer for approval before the actual spares are procured and submits invoice(s) for the spares procured before monthly assessments can be performed.

25.3 Control of noise, dust, water and waste

- No maintenance or services shall be carried out before a hazard analysis and a risk assessment for the works has been done and approved by the *Employer*

25.4 Hook ups to existing works

- The *Contractor* with written permission from the *Service Manager* may tie in or hook on to existing equipment or works.
- The *Contractor* will under no circumstances bypass any regulatory processes in tying or hooking on to existing works.

26 Tests and inspections

26.1 Description of tests and inspections

- The calibration of mechanical and electrical testing equipment must be conducted periodically this service is provided by the onsite SANAS accredited laboratory. Therefore, effective planning is required by the *Contractor* to ensure that the required equipment is available when required
- Inspection by oversight bodies to ensure adherence to the statutory requirements and procedural requirements during self-assessments and Audits
- Monthly Workshop Inspections – Housekeeping

27 List of drawings

27.1 Drawings issued by the *Employer*

Drawings and maintenance procedures shall be issued as part of services execution after the contract is awarded. The list of specifications, Standards and procedures to be used to execute the services are given in Section 17.1.

28 Service Level Table

The *Employer* expects the *Contractor* to consistently supply suitably qualified and competent resources to complete all tasks on time, in the correct manner, utilising the least possible time, with no unnecessary wastage of materials, consumables and/or miss-use of tools, equipment, working hours or other *Employer* property or assets.

The *Contractor* will continuously measure, monitor, and report the following leading indicators to the *Service Manager*:

- a) Measurement quantity of jobs accepted by the *Employer*; (Monthly)
- b) Accepted performance in relation to “need” date. (Weekly)
- c) Actual detail of tasks completed (TECO'd in SAP) (Weekly)
- d) On plant observations (weekly)
- e) Workshop monthly inspection

The above reports will be made in MS Excel and must presented to the *Service Manager* in either hard or soft copies as part of the monthly Assessment.

The *Contractor* shall comply with the expectations listed on table below. All low performance damages shall be calculated on the total assessment value (i.e. value including all costs, claims and factors) of each completed month.

Table 14: Service level table

Item	Description	Service level	Low service Damage
1	Housekeeping/Foreign Material Exclusion (FME)	No complaints/Conditional reports where the <i>Contractor</i> is found to be at fault	Minus 3%
2	Expired Authorisations	Not two and more missed booked training, and Staff authorisations to be valid	Minus 3%
3	PSR and Safe worker practices	No violations (administration and suspensions), Zero incidents	Minus 3%
4	Radiation Protection	Zero violations	Minus 3%
5	Work schedule adherence	Work to be completed as planned unless the <i>Employer</i> or his/her representative	Minus 3%

		communicates change in plans	
6	Documentation quality non-compliance	No reported incidents/violations due to <i>Contractor's</i> negligence	Minus 3%

Note 1: Housekeeping and FME violations are limited to official complaints, noted and tracked on the *Employer's* Occurrence management and Observation system, i.e. as a CR (Condition Report) or Management Inspection Reports, where the *Contractor* is found to be at fault.

Note 2: The *Contractor* strives to always adhere to schedule requirements in accordance with authorisations obtained.

Note 3: The *Contractor* shall have members of his own staff qualified as Responsible Persons (RP) as per the contract with no PSR violations. And unsafe work practices are defined as not in accordance with the *Employer's* SHE requirements, including Construction Regulations and OHS Act stipulations, and failure of the *Contractor* to take the required safety precautions as determined by the *Employer* and expected from an experienced Contractor. Safety incidents are defined as the following:

- Any injury that requires medical attention, or
- Any disabling injury.

Note 4: Radiation Protection violations are limited to:

- Exceeding prescribed weekly dose target levels, and/or
- Activation of alarm set point (Dosimetry), and/or
- Not complying with RP practices.

Note 5: Any work not executed on the plan of the day by the *Contractor*, resulting to the *Employer* non-adherence to the plant schedule, when the plant is available and all the support groups having been organised and ready to support and with the *Employer* and or his/her representative having not communicated any changes to the plan.

Note 6: Any test certificates handed to the *Employer* by the *Contractor* with incorrect information such as test weights, date of the load test, And any service reports that are not completed timeously and accurately resulting to schedule non-adherence by the *Employer*.

APPENDIX A

Job descriptions and requirements

1.0 THE TECHNICAL CRITERIA

The contractor must meet the following criteria:

- i) have a proven track record in industry
- ii) be able to supply references to previous projects undertaken
- iii) supply medically fit and suitably qualified staff as specified
- iv) supply staff who can be declared medically fit in terms of heat stress/confined space
- v) be able to supply staff with no criminal record
- vi) supply staff who are radiation workers or provide a comprehensive plan to indicate how the contractor will ensure that the required staff becomes radiation workers
- vii) provide 24-hour standby coverage
- viii) provide 24-hour service during outage periods
- ix) pay a market related wage to workforce
- x) supply Personal Protective Equipment (PPE) to workforce to Koeberg standards

2.0 JOB DESCRIPTIONS & REQUIREMENTS

2.1 Site Manager

Site Manager shall:

- a) have a minimum of 5 years' experience in the cranes services environment;
- b) ensure that all OHSA requirements and regulations are complied with;
- c) be fully conversant with the New Engineering Contracts (NEC) used by Eskom or be prepared to be trained in the NEC, at the contractor's cost;
- d) be fully conversant with Koeberg procedures and processes or be able to ensure that he/she will be fully conversant within one-month after contract award;
- e) be computer literate, and be conversant with MS-Projects, MS-Excel, MS-Word and MS-Access;
- f) to have the ability to converse with own staff and *Employer's* staff on technical and operational matters.
- g) develop / implement safe work procedures.
- h) analyse work methods to improve productivity.
- i) initiate and control investigations of recurring plant problems in sub section.
- j) verify that maintenance activities meet quality requirements. Identify and correct non-compliances.
- k) verify that staff comply with certification requirements. In case of any non-compliance, initiate specific action.
- l) check that work performed is in accordance with contract / standards / requirements.
- m) check that services provided are as per contract requirements

2.2 Supervisor

Supervisors shall:

- a) have Grade 12;
- b) Completed a Supervisory training program (evidence to be provided)
- c) Recognised Crane Trade Certificate
- d) 5 years post trade test experience in a maintenance environment with in-depth crane knowledge.
- e) Registered Lifting Machinery Inspector
- f) have a minimum of 7 years related working experience;
- g) be competent to complete Koeberg Plant Systems and Plant Safety Regulation courses;
- h) ensure sufficient quality control and assurance;
- i) be computer literate and must be able to read and write English;
- j) be able to interface with engineers/technicians/managers with regard to Lifting Machine Entity concerns as the competent person;
- k) study daily work plan, identify priorities and allocate work;
- l) issue work instructions, monitor progress and report progress to Senior Supervisor;
- m) check quality of work performed. Identify and address non-quality activities;
- n) do job observations, identify and attend to non-adherence to work procedures;
- o) check workshop cleanliness;
- p) check that equipment history records are correctly completed;
- q) hold sub section meetings;
- r) assist staff with problems and Identify training needs;
- s) ensure that staff authorisations do not lapse;
- t) arrange and hold safety talks with staff;
- u) conduct inspections of all tools, protective clothing and equipment of staff;
- v) attend and participate in statutory monthly safety meetings;
- w) do job and critical task observations. And complete all related documentation;
- x) check that information in Work Packages and Notifications are correct;
- y) allocate defects to Execution Supervisor and verify that work is completed;
- z) check that maintenance programme is executed.

2.3 Artisan/ Crane technician

Artisans shall:

- a) Have a recognised Trade Test Certificate
- b) have a minimum of 5 years related working experience;
- c) be computer literate and must be able to read and write English;
- d) perform plant walk-downs of work packages;

-
- e) in the absence of the Supervisor issue work instructions, monitor progress and report progress to Senior Supervisor;
 - f) check the quality of work performed. Identify and report non-quality activities to Supervisor;
 - g) perform direct supervision on medium to high risk activities;
 - h) do job observations, identify and attend to non-adherence to work procedures;
 - i) in the absence of the Supervisor check that equipment history records are correctly completed;
 - j) in the absence of the Supervisor hold sub section meetings;
 - k) ensure that staff authorisations are valid;
 - l) attend and participate in statutory monthly safety meetings;
 - m) check that information in Work Packages and Notifications are correct;

2.4 Lifting Machine Inspector (LMI)

LMI shall:

- a) have a minimum of 2 years related post certification working experience;
- b) be able to read and write English;
- c) perform plant walk-downs of work packages;
- d) Recognised Crane Trade Certificate
- e) 3 years post trade test experience in a maintenance environment with an in depth crane knowledge
- f) Registered Lifting Machinery Inspector
- g) Be responsible for the co-ordination of the work on site.
- h) monitor work progress and report progress to Supervisor.
- i) ensure tools and equipment are maintained in a serviceable and clean condition.
- j) sign on/off the LAR.
- k) perform pre-job briefs.
- l) complete equipment history records.

2.5 Semi-skilled

Semi-skilled shall:

- a) have a minimum of 2 years related working experience;
- b) be able to read and write English;
- c) Minimum of 2 years' experience in the Maintenance environment with an in depth crane knowledge.
- d) operate powered tools such as grinders, drills
- e) use various manual tools such as scrapers, shovels, squeegees, brooms, wheelbarrows etc.
- f) perform housekeeping and safety related tasks (i.e., pre/post maintenance cleaning, preventative cleaning).

2.6 Technician (Work Package Compiler)

The Compiler has the primary responsibility for compiling the work package to ensure work can be completed safely, efficiently, and at a high level of quality.

- a) have a minimum of 2 years related working experience.
- b) be able to read and write English.
- c) Minimum of 2 years' experience in the Maintenance environment with in-depth crane knowledge.
- d) Must at a ND Mech or NHD N6 minimum.
- e) The Compiler shall ensure that the final work package issued:
 - i) Clearly defines the reason for, and the scope of work to be performed.
 - ii) Identifies likely changes or additions to the work scope and prepares the work package to address the primary work scope as well as reasonable contingencies where applicable.
 - iii) Has been prepared at a level of appropriate detail to the complexity of the anticipated activities.
 - iv) Provides documentation needed to complete the primary task and all anticipated contingencies in a safe and timely fashion where applicable.
- f) The Compiler shall perform a physical walk down of the job site (if accessible).
- g) The Compiler shall consider additional requirements upfront such as SACs etc. that requires support from OH&S and FRM which is not loaded on SAP as an operation but is required to complete the task.
- h) The Compiler shall consult with the relevant departments to establish at what unit state the work could be carried out at.
- i) The Compiler is to determine whether contingency operations are required.
- j) The Compiler shall determine the level of work package to be compiled.
- k) The Compiler shall determine the relevant spares required for both the primary scope as well as for the contingency to carry out the corrective actions to restore the plant.
- l) The Compiler shall take into consideration for activities that are performed over a period that separate operations are raised to flag the history capturing, pre-job briefings, risk assessment, etc.

2.7 Safety Officer

Safety Officer shall:

- a) have Grade 12.
- b) have a minimum of 3 years working experience.
- c) have a Safety Officer Certificate Equivalent to NQF 6
- d) provide advice, information, and instruction on local OH&S issues.
- e) assist in the application of OH&S procedures.
- f) help manage risks and hazards in their area.
- g) record and investigate incidents, injuries and hazards and implement agreed control measures.

-
- h) liaise with the on-site OH&S Department and other safety personnel.
 - i) develop injury and incident prevention strategies for their area.
 - j) audit compliance regarding risk, emergency, and hazardous waste management.
 - k) help promote OH&S awareness.
 - l) manage company H&S systems.
 - m) have successfully completed Risk Assessment training.
 - n) have a sound working knowledge of safety, health, and environmental affairs principles and regulatory requirements.

2.8 Assistant

- a) Minimum of 1 years' experience in the Maintenance environment with an in-depth crane knowledge.

2.9 Admin Clerk

An Admin Clerk shall:

- a) have a minimum Grade 12.
- b) have a minimum of 3 years' experience.
- c) be computer literate.
- d) have sufficient knowledge of office administration.
- e) be able to interface with workers/site manager and *Service Manager* regarding issues and concerns related to administrate all payroll activities and issues that may arise.
- f) keep an accurate record of the training competencies of the staff
- g) Support with filling crane history on SAP and in the physical files
- h) accurately capture the history on SAP
- i) be able to administer the *Employers* fitness for duty database.
- j) Keep a complete record of employees' attendance records on site.

The statements above are intended to describe the general nature and level of work being performed by the incumbent(s) of this job. They are not intended to be an exhaustive list of all responsibilities and activities required of the position.

APPENDIX B**Typical types of Cranes on Site**

ITEM NO	MAKE	QUANTITY	WEIGHT
1.	CFEM (TURBINE HALL CRANES)	2	190T
2.	DE WET (OVERHEAD CRANES)	1	1T (WINCH)
3.	DE WET (OVERHEAD CRANES)	3	1.5T
4.	DE WET (OVERHEAD CRANES)	9	2T
5.	DE WET (OVERHEAD CRANES)	4	3T
6.	DE WET (OVERHEAD CRANES)	6	4T
7.	DE WET (OVERHEAD CRANES)	8	5T
8.	DE WET (OVERHEAD CRANES)	2	6T
9.	DE WET (OVERHEAD CRANES)	1	6.3T
10.	DE WET (OVERHEAD CRANES)	3	8T
11.	DE WET (OVERHEAD CRANES)	8	10T
12.	De Wet (Overhead cranes)	3	13T
13.	DE WET (OVERHEAD CRANES)	1	30T
14.	DELATTRE LEVIVIER	2	6T
15.	DELATTRE LEVIVIER	2	60/5T
16.	DELATTRE LEVIVIER	2	130T
17.	DEMAG (OVERHEAD CRANES)	1	1T
18.	DEMAG (OVERHEAD CRANES)	1	2T
19.	BLACK BEAR	2	10T
20.	GIS	4	2.5T
21.	NITCHI	2	3T
22.	YALE	1	180KG
23.	SEW	2	300KG
24.	FAST SERVICES	1	1T
25.	INGERSOLL RAND	1	1T
26.	COME UP	1	200KG
27.	COME UP	1	300KG
28.	HAND WHEEL	10	500KG
29.	DEMAG (OVERHEAD CRANES)	1	100T
30.	DEMAG (OVERHEAD CRANES)	2	10T
31.	DEMAG (OVERHEAD CRANES)	2	20T (PORTAL & SEMI-PORTAL)
32.	DEMAG (OVERHEAD CRANES)	1	30T
33.	GOODS HOIST FOR NAB HOT LAUNDRY		
34.	Merger (Overhead cranes)	4	8T
35.	MORRIS (INCLUDING MONO-RAIL)	3	1T
36.	MORRIS	2	6.3T
37.	MORRIS	1	50/5T
38.	MUNCK	1	32/5T
39.	POLAR CRANE (SIEV-VEVEY)	2	190/10T
40.	REEL (PMC CRANES)	2	5/2T
41.	UNILEC	1	3T

APPENDIX C

Typical Year Planner

January	February	March	April	May	June	July	August	September	October	November	December
1 Sa	1 Tu	1 Tu	1 Fr	1 Su	1 We	1 Fr	1 Mo	1 Th	1 Sa	1 Tu	1 Th
2 Su	2 We	2 We	2 Sa	2 Mo	2 Th	2 Sa	2 Tu	2 Fr	2 Su	2 We	2 Fr
3 Mo	3 Th	3 Th	3 Su	3 Tu	3 Fr	3 Su	3 We	3 Sa	3 Mo	3 Th	3 Sa
4 Tu	4 Fr	4 Fr	4 Mo	4 We	4 Sa	4 Mo	4 Th	4 Su	4 Tu	4 Fr	4 Su
5 We	5 Sa	5 Sa	5 Tu	5 Th	5 Su	5 Tu	5 Fr	5 Mo	5 We	5 Mo	5 Mo
6 Th	6 Su	6 Su	6 We	6 Fr	6 Mo	6 We	6 Sa	6 Tu	6 Th	6 Tu	6 Tu
7 Fr	7 Mo	7 Mo	7 Th	7 Sa	7 Tu	7 Th	7 Su	7 We	7 Fr	7 Mo	7 We
8 Sa	8 Tu	8 Tu	8 Fr	8 Su	8 We	8 Mo	8 Mo	8 Th	8 Sa	8 Tu	8 Th
9 Su	9 We	9 We	9 Sa	9 Mo	9 Th	9 Sa	9 Tu	9 Fr	9 Su	9 We	9 Fr
10 Mo	10 Th	10 Th	10 Su	10 Tu	10 Fr	10 Su	10 We	10 Sa	10 Mo	10 Th	10 Sa
11 Tu	11 Fr	11 Fr	11 Mo	11 We	11 Sa	11 Mo	11 Th	11 Su	11 Tu	11 Fr	11 Su
12 We	12 Sa	12 Sa	12 Tu	12 Th	12 Su	12 Tu	12 Fr	12 Mo	12 We	12 We	12 Mo
13 Th	13 Su	13 Su	13 We	13 Fr	13 Mo	13 We	13 Sa	13 Tu	13 Th	13 Th	13 Tu
14 Fr	14 Mo	14 Mo	14 Th	14 Sa	14 Tu	14 Th	14 Su	14 We	14 Fr	14 Mo	14 We
15 Sa	15 Tu	15 Tu	15 Fr	15 Su	15 We	15 Fr	15 Mo	15 Th	15 Sa	15 Tu	15 Th
16 Su	16 We	16 We	16 Sa	16 Mo	16 Th	16 Sa	16 Tu	16 Fr	16 Su	16 We	16 Fr
17 Mo	17 Th	17 Th	17 Su	17 Tu	17 Fr	17 Su	17 We	17 Sa	17 Mo	17 Th	17 Sa
18 Tu	18 Fr	18 Fr	18 Mo	18 We	18 Sa	18 Mo	18 Th	18 Su	18 Tu	18 Fr	18 Su
19 We	19 Sa	19 Sa	19 Tu	19 Th	19 Su	19 Tu	19 Fr	19 Mo	19 We	19 We	19 Mo
20 Th	20 Su	20 Su	20 We	20 Fr	20 Mo	20 We	20 Sa	20 Tu	20 Th	20 Th	20 Tu
21 Fr	21 Mo	21 Mo	21 Th	21 Sa	21 Tu	21 Th	21 Su	21 We	21 Fr	21 Mo	21 We
22 Sa	22 Tu	22 Tu	22 Fr	22 Su	22 We	22 Fr	22 Mo	22 Th	22 Sa	22 Tu	22 Th
23 Su	23 We	23 We	23 Sa	23 Mo	23 Th	23 Sa	23 Tu	23 Fr	23 Su	23 We	23 Fr
24 Mo	24 Th	24 Th	24 Su	24 Tu	24 Fr	24 Su	24 We	24 Sa	24 Mo	24 Th	24 Sa
25 Tu	25 Fr	25 Fr	25 Mo	25 We	25 Sa	25 Mo	25 Th	25 Su	25 Tu	25 Fr	25 Su
26 We	26 Sa	26 Sa	26 Tu	26 Th	26 Su	26 Tu	26 Fr	26 Mo	26 We	26 We	26 Mo
27 Th	27 Su	27 Su	27 We	27 Fr	27 Mo	27 We	27 Sa	27 Tu	27 Th	27 Th	27 Tu
28 Fr	28 Mo	28 Mo	28 Th	28 Sa	28 Tu	28 Th	28 Su	28 We	28 Fr	28 Mo	28 We
29 Sa			29 Tu	29 Su	29 We	29 Fr	29 Mo	29 Th	29 Sa	29 Tu	29 Th
30 Su			30 Fr	30 Mo	30 Th	30 Sa	30 Tu	30 Fr	30 Su	30 We	30 Fr
31 Mo				31 Tu		31 Su	31 We		31 Mo	31 Th	31 Sa
L/T - Load Test		S - Service		F/C - Functional Check		I - Inspection					

APPENDIX D (Page 1 / 2)

List of Cranes to be serviced, inspected, and maintained on Site

PROGRAM	SWL	LOCATION	CRANE TYPE	CRANE MANUFACT	TYPE OF SERVICE AND FREQUENCY	LOAD TEST FREQUENCY
0 DMX 001 PR	10 TON	SITE STORES	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	3M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
0 DMX 002 PR	30 TON	MACHINE SHOP	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	3M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
0 DMX 003 PR	10 TON	DECON WORKSHOP	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	3M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
0 DMX 004 PR	10 TON	DECON WORKSHOP	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	3M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
0 DMX 006 PR	2 TON	WELDERS	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEMAG	3M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
0 DMX 007 PR	10 TON	RIGGING WORKSHOP	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	DEMAG	3M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
0 DMX 008 PR	10 TON	ROTORK WORKSHOP	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	DEMAG	3M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
0 DMX 009 PR	5 TON	STAINLESS STEEL WORKSHOP	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEMAG	3M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
0 DMX 010 PR	3.2 TON	ROTORK SERVO MOTOR WORKSHOP	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEMAG	3M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMG 001 PR	4 TON	SEC	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMG 002 PR	4 TON	SEC	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMG 003 PR	2 TON	SEC - TRAIN A	MONORAIL WITH UNDERSLUNG HOIST	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMG 004 PR	2 TON	SEC - TRAIN B	MONORAIL WITH UNDERSLUNG HOIST	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMK 001 PR	5 TON	14.25M FUEL BUILDING	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	FEMII	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMK 002 PR	6 TON	0M FUEL BUILDING	MONORAIL WITH UNDERSLUNG HOIST		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMK 003 PR	130 TON	20M FUEL BUILDING	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMM 001 PR	190/30 TON	9.5M TURBINE HALL	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	CFEM	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMP 001 PA	300 KG	DRUM SCREEN WINCH	WINCH	SEW	6M OHS&A SERVICE-WINCH	1Y OHS&A LAOD TEST WINCH
1 DMW 002 PR	10 TON	DEG	MONORAIL WITH UNDERSLUNG HOIST		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMW 003 PR	5 TON	VVP	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMW 005 PR	60/4 TON	GANTRY	GANTRY CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMX 001 PR	8 TON	TURBINE HALL (APP)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMX 002 PR	8 TON	TURBINE HALL (APP)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMX 003 PR	3 TON	TURBINE HALL (-6M)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMX 004 PR	7.5 TON	ATE	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMX 005 PR	2 TON	DIESELS	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		3Y SERVICE CRANE	3Y OHS&A LAOD TEST CRANE
1 DMX 006 PR	2 TON	DIESELS	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		3Y SERVICE AND OHS&A LOAD TEST CRANE	3Y OHS&A LAOD TEST CRANE
1 DMX 007 PR	4 TON	SAP COMPRESSORS	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
1 DMR 001 PR	190/10/5 TON	20M REACTOR BUILDING	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE		1RO ELECTRICAL & MECHANICAL SERVICE	1RO LOAD TEST CRANE
1 DMR 002 PR	2 TON	14.5 REACTOR BUILDING	JIB WITH UNDERSLUNG ELECTRIC HOIST	DEWET	1RO B-SERVICE	1RO LOAD TEST CRANE
1 DMR 003 PR	10 TON	0M REACTOR BUILDING	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET FEMII	1RO B-SERVICE PRE-OPERATIONAL INS	1RO LOAD TEST CRANE
1 DMR 004 PR	1.5 TON	20M REACTOR BUILDING	WINCH		1RO OHS&A SERVICE WINCH	1RO LOAD TEST WINCH
1 DMR 005 PR	500 KG	20M REACTOR BUILDING(PRESSURISER)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	1RO SERVICE CRANE	1RO LOAD TEST CRANE
1 DMR 006 PR	500 KG	20M REACTOR BUILDING(PRESSURISER)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	1RO B-SERVICE PRE-OPERATIONAL INS	1RO LOAD TEST CRANE
1 EEP 001 PA	15 TON	20M REACTOR BUILDING	WINCH		1RO B-SERVICE	1RO LOAD TEST WINCH
1 EEP 002 PA	15 TON	20M REACTOR BUILDING	WINCH		1RO B-SERVICE	1RO LOAD TEST WINCH
1 PMC 351 PT	5/2 TON	20M FUEL BUILDING	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMG 001 PR	4 TON	SEC	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMG 002 PR	4 TON	SEC	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMG 003 PR	2 TON	SEC	MONORAIL WITH UNDERSLUNG HOIST	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMG 004 PR	2 TON	SEC	MONORAIL WITH UNDERSLUNG HOIST	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMK 001 PR	5 TON	14.25M FUEL BUILDING	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMK 002 PR	6 TON	0M FUEL BUILDING	MONORAIL WITH UNDERSLUNG HOIST		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMK 003 PR	130 TON	20M FUEL BUILDING	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	DELATRE LEVIVIER	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMM 001 PR	190/30 TON	9.5M TURBINE HALL	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	CFEM	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMP 001 PA	300 KG	DRUM SCREEN WINCH	WINCH		6M OHS&A SERVICE CRANE-WINCH	1Y OHS&A LAOD TEST CRANE-WINCH
2 DMW 002 PR	10 TON	DEG	MONORAIL WITH UNDERSLUNG HOIST	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMW 003 PR	5 TON	VVP	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE
2 DMW 005 PR	60/5 TON	GANTRY	GANTRY CRANE		6M OHS&A SERVICE CRANE	1Y OHS&A LAOD TEST CRANE

APPENDIX D (Page 2 / 2)

List of Cranes to be serviced, inspected and maintained on Site

TRIGRAM	SWL	LOCATION	CRANE TYPE	CRANE MANUFAC	TYPE OF SERVICE AND FREQUENCY	LOAD TEST FREQUENCY
2 DMW 006 PR	5 TON	VVP	MONORAIL WITH UNDERSLUNG HOIST	KUNG DONG	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
2 DMX 001 PR	8 TON	TURBINE HALL (APP)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
2 DMX 002 PR	8 TON	TURBINE HALL (APP)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
2 DMX 003 PR	3 TON	TURBINE HALL (-6M)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
2 DMX 004 PR	7.5 TON	ATE	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
2 DMX 005 PR	2 TON	DIESELS	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		3Y SERVICE CRANE	3Y OHSa LAOD TEST CRANE
2 DMX 006 PR	2 TON	DIESELS	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		3Y SERVICE CRANE	3Y OHSa LAOD TEST CRANE
2 DMX 007 PR	4 TON	SAP COMPRESSORS	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
2 DMR 001 PR	190/10/5 TON	20M REACTOR BUILDING	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	SIEV-VEVEY	1RO ELECTRICAL & MECHANICAL SERV	1RO LOAD TEST CRANE
2 DMR 002 PR	2 TON	14.5 REACTOR BUILDING	JIB WITH UNDERSLUNG ELECTRIC HOIST		1RO B-SERVICE	1RO LOAD TEST CRANE
2 DMR 003 PR	10 TON	0M REACTOR BUILDING	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	1RO B-SERVICE PRE-OPERATIONAL INS	1RO LOAD TEST CRANE
2 DMR 004 PA	1.5 TON	20M REACTOR BUILDING	WINCH	MORRIS	1RO OHSa SERVICE WINCH	1RO LOAD TEST WINCH
2 DMR 005 PR	500 KG	20M REACTOR BUILDING(PRESSURISER)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	1RO SERVICE CRANE	1RO LOAD TEST CRANE
2 DMR 006 PR	500 KG	20M REACTOR BUILDING(PRESSURISER)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	1RO B-SERVICE PRE-OPERATIONAL INS	1RO LOAD TEST CRANE
2 EPP 001 PA	15 TON	20M REACTOR BUILDING	WINCH		1RO B-SERVICE	1RO LOAD TEST WINCH
2 EPP 002 PA	15 TON	20M REACTOR BUILDING	WINCH		1RO B-SERVICE	1RO LOAD TEST WINCH
2 PMC 351 PR	5/2 TON	20M FUEL BUILDING	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
6 DMX 600 PR	62/5 TON	ISI WORKSHOP	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
6 DMX 601 PR	3 TON	EMS MOTOR WORKSHOP	MONORAIL WITH UNDERSLUNG HOIST		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
6 DMX 900 PR	6.3 TON	LOW LEVEL WASTE	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	MORRIS	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
6 DMX 901 PR	6.3 TON	LOW LEVEL WASTE	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	MORRIS	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
6 DMX 962 PR	1 TON	VALVE WORKSHOP MSS	MONORAIL WITH UNDERSLUNG HOIST		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMG 100 PA	200 KG	CLEANERS WINCH	WINCH	COME UP	6M OHSa SERVICE CRANE-WINCH	1Y OHSa LAOD TEST CRANE-WIN
9 DMN 001 PR	10 TON	PORTAL CRANE-TURBINE HALL	DOUBLE GIRDER PORTAL ELECTRIC OVERHEAD CRAN	DEWET	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMN 002 PR	10 TON	PORTAL CRANE-TURBINE HALL	DOUBLE GIRDER PORTAL ELECTRIC OVERHEAD CRAN	DEWET	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMN 001 PR	10 TON	FILTER FLOOR	MONORAIL WITH UNDERSLUNG HOIST & SINGLE GIR	DEWET	13W OHSa SERVICE CRANE	
9 DMN 002 PR	6.3 TON	0M TES DRUMMING (N 265)	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMN 003 PR	8 TON	FILTER FLOOR	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMN 004 PR	8 TON	FILTER FLOOR	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMN 005 PR	6.3 TON	TES DRUMMING (-6M N030)	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMN 006 PR	1.5 TON	BORON ROOM	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMN 007 PR	8 TON	FILTER FLOOR	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMN 008 PR	1.5 TON	FILTER FLOOR	SINGLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMN 010 PA	1 TON	FILTER FLOOR	WINCH		6M OHSa SERVICE CRANE-WINCH	1Y OHSa LAOD TEST CRANE-WIN
9 DMN 100 PR	50 KG	HOT LAUDRY	GOODS LIFT		6M OHSa SERVICE LIFT	1Y OHSa LAOD TEST LIFT
9 DMP 001 PR	30 TON	CRF PUMPSTATION - INSIDE	DOUBLE GIRDER ELECTRIC OVERHEAD CRANE	DEWET	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMP 002 PR	20 TON	CRF PUMPSTATION - OUTSIDE	DOUBLE GIRDER SEMI PORTAL ELECTRIC OVERHEAD	DEMAG	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 DMX 007 PR	2 TON	DIESELS	SINGLE GIRDER ELECTRIC OVERHEAD CRANE		3Y OHSa SERVICE CRANE	3Y OHSa LAOD TEST CRANE
9 DMX 008 PA	10 TON	GANTRY WINCH	WINCH		6M OHSa SERVICE CRANE-WINCH	1Y OHSa LAOD TEST CRANE-WIN
9 DMW 100 PA	1.5 TON	PNEUMATIC WINCH	WINCH		6M OHSa SERVICE CRANE-WINCH	1Y OHSa LAOD TEST CRANE-WIN
9 DMX 950 PR	32/5 TON	BULK STORES	DOUBLE GIRDER PORTAL ELECTRIC OVERHEAD CRANE		6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 TES 002 PR	5 TON	BATCHING PANT	DOUBLE GIRDER PORTAL ELECTRIC OVERHEAD CRAN	DEWET	6M OHSa SERVICE CRANE	1Y OHSa LAOD TEST CRANE
9 TES 001 DM		DRUMMING AREA	CHATEAU		6M INSPECT LEAD CAST	1Y LOAD TEST
EH 001 B	2.5 TON	RIGGING WORKSHOP	ELECTRIC HOIST	GIS	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST
EH 002 B	2.5 TON	RIGGING WORKSHOP	ELECTRIC HOIST	GIS	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST
EH 003 B	2.5 TON	RIGGING WORKSHOP	ELECTRIC HOIST	GIS	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST
EH 004 B	2.5 TON	RIGGING WORKSHOP	ELECTRIC HOIST	GIS	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST
EH 005 B	10 TON	RIGGING WORKSHOP	ELECTRIC HOIST	BLACK BEAR	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST
EH 006 B	10 TON	RIGGING WORKSHOP	ELECTRIC HOIST	BLACK BEAR	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST

TRIGRAM	SWL	LOCATION	CRANE TYPE	CRANE MANUFAC	TYPE OF SERVICE AND FREQUENCY	LOAD TEST FREQUENCY
EH 007 B	1 TON	RIGGING WORKSHOP	ELECTRIC HOIST	FITOP	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST
EH 008 B	3 TON	RIGGING WORKSHOP	ELECTRIC HOIST	KING	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST
EH 009 B	3 TON	RIGGING WORKSHOP	ELECTRIC HOIST	KING	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST
EH 010 B	3 TON	RIGGING WORKSHOP	ELECTRIC HOIST	KING	3M OHSa SERVICE HOISTS	1Y OHSa LAOD TEST HOIST
6 HSW 000 BG		MWS WORKSHOP (RIGGING)	LIFTING EQUIPMENT		3M OHSa INSPECT LIFTING GEAR	
6 HAI 000 BG		ISI WORKSHOPS	LIFTING EQUIPMENT		3M OHSa INSPECT LIFTING GEAR	
6 HGO 000 BG		FFD CENTER	LIFTING EQUIPMENT		3M OHSa INSPECT LIFTING GEAR	
6 HSM 000 BG		MMS WORKSHOP AREA	LIFTING EQUIPMENT		3M OHSa INSPECT LIFTING GEAR	
9 HNC 000 BG		NAB AREA	LIFTING EQUIPMENT		3M OHSa INSPECT LIFTING GEAR	
6 HSW 000 BG		MWS WORKSHOP (RIGGING)	MOBILE ELEVATED PLATFORMS	SKY-JACK	6M SERVICE SKY-JACKS AND STEEPLE	1Y LOAD TEST SKY-JACKS AND S

APPENDIX E

Excerpt of Lifting Tackle and Hand powered lifting Devices

RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW01	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW02	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW03	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW04	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW05	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW06	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW07	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW08	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW09	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW10	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW11	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW12	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW13	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW14	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW15	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW16	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW17	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW18	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW19	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW20	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW21	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW22	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW23	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW24	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW25	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW26	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW27	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW28	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW29	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW30	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW31	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW32	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW33	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW34	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW35	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW36	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW37	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW38	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW39	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW40	2022-06-03	Passed
RADWASTE - LOW LEVEL WASTE	Bow Shackle	6.5Ton	Body Ø: 36mm; Pin Ø: 25mm; Width of throat = 23mm	LLW41	2022-06-03	Passed
RIGGING STORE	Eye Bolt	g (0,23Ton on Insp. She	M10	2	2022-04-04	Passed
RIGGING STORE	Eye Nut	0,7Ton	M16	2	2022-04-12	Passed
RIGGING STORE	Eye Bolt	1,6Ton	M20	3	2022-04-04	Passed
RIGGING STORE	Eye Bolt	1,6Ton	M20	4	2022-04-04	Passed
RIGGING STORE	Eye Bolt, Swivel	2,8Ton	M24 X Nm (Torque Setting)	SEB001	2022-04-15	Passed
RIGGING STORE	Eye Bolt, Swivel	2,8Ton	M24 X Nm (Torque Setting)	SEB002	2022-04-15	Passed
RIGGING STORE	D Shackle	2Ton	Body Ø: mm; Pin Ø: mm; Width of throat = mm	5	2022-04-15	Passed
RIGGING STORE	Bow Shackle	13,5Ton	Body Ø: mm; Pin Ø: mm; Width of throat = mm	6	2022-04-12	Passed
RIGGING STORE	Eye Bolt	1,6Ton	M20	8	2022-04-04	Passed
RIGGING STORE	Bow Shackle	1Ton	Body Ø: mm; Pin Ø: mm; Width of throat = mm	9.75	2022-04-12	Passed
RIGGING STORE	Bow Shackle	1Ton	Body Ø: mm; Pin Ø: mm; Width of throat = mm	608	2022-04-12	Passed
RIGGING STORE	D Shackle	1Ton	Body Ø: mm; Pin Ø: mm; Width of throat = mm	9.79	2022-04-15	Passed
RIGGING STORE	Eye Bolt / Eye Nut(Insp. Sheet)	700kg / 0,7Ton	M16	10	2022-04-12	Passed
RIGGING STORE	D Shackle	1,5Ton	Body Ø: mm; Pin Ø: mm; Width of throat = mm	11	2022-04-15	Passed
RIGGING STORE	Eye Bolt	g (0,23Ton on Insp. She	M10	12	2022-04-04	Passed
RIGGING STORE	Eye Bolt	or 0.23Ton (on Insp. she	M10	16	2022-04-04	Passed
RIGGING STORE	Eye Bolt	8Ton	M42	EB42012	2022-05-25	Passed
RIGGING STORE	Eye Bolt	8Ton	M42	42001	2022-05-25	Passed
RIGGING STORE	Eye Bolt	8Ton	M42	42002	2022-05-25	Passed
RIGGING STORE	Eye Bolt	8Ton	M42	42003	2022-05-25	Passed
RIGGING STORE	Eye Bolt	8Ton	M42	42005	2022-05-25	Passed
RIGGING STORE	Eye Bolt	8Ton	M42	42007	2022-05-25	Passed
RIGGING STORE	Eye Bolt	8Ton	M42	42009	2022-05-25	Passed
RIGGING STORE	Eye Bolt	230kg	M10	105	2022-04-04	Passed
RIGGING STORE	Eye Bolt	1,2Ton	M20	130	2022-04-04	Passed

APPENDIX F

Medical requirements

1. The following will be presented on arrival at KNPS, for perusal and assessment for approval by the Site Occupational Practitioner:
2. Copy of recent (within 6 months of arrival at KNPS) medical examination, **NOT A CERTIFICATE OF FITNESS.**
3. Name, Qualifications, and registration number of examining Occupational Medical Practitioner (OMP) whose credentials should be clearly written on the medical examination form. OMP should be currently registered with his/her country's Medical Council (in the case of non-SA personnel). Medical examination conducted by an Occupational Health Nurse Practitioner is acceptable but must be verified and signed by the responsible OMP.
4. **Copies of relevant special investigations should accompany the medical record**, e.g., Spirogram and asbestos chest x-ray.
5. A **valid passport** to be presented as identification on arrival at Koeberg NPS Medical centre. A South African ID in the case of South African citizens is mandatory.
6. An appropriately completed and signed "Man Job Spec" to be acquired from the Eskom Site Representative and presented on arrival at the Medical centre.
7. Issuing of the Certificate of Fitness to work at Eskom sites in the responsibility of the Eskom Occupational Medical Practitioner.

Without the above said requirements the individuals' application will not be processed.

ESKOM HOLDINGS SOC Ltd

CONTRACT NUMBER

PROJECT AND CONTRACT TITLE - The provision of lifting machinery service and lifting tackle, including maintenance, load testing and the supply of required spares and overhead cranes refurbishment on an as and when required basis for a period of 60 months at Koeberg Operating Unit (KOU)