



NEC3 Term Service Contract (TSC3)

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

**and []
(Reg No. _____)**

**for The Provision of an Industrial Cleaning Service for
Koeberg Operating Unit**

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CONTRACT No. []



- Q3/L3
- 238-103 applicable
2024-04-11

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 AN INDUSTRIAL CLEANING SERVICE FOR KOEBERG OPERATING UNIT

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	R [●]
	Value Added Tax @ 15% is	R [●]
	The offered total of the amount due inclusive of VAT is ¹	R [●]
	(in words) [●]	

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

Signature(s)

Name(s)

Capacity

For the tenderer:

.....
(Insert name and address of organisation)

Name & signature of witness

Date

Tenderer's CIDB registration number:

.....

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)

Mr AV Ntuli

Capacity

Power Station General Manager

**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

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

Note:

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

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

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

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

For the tenderer:

For the Employer

Signature

.....

Name

Mr AV Ntuli

Capacity

Power Station General Manager

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

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

Name & signature of witness

.....

Date

.....

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: dispute resolution Option and secondary Options	<p>A: Priced contract with price list</p> <p>W1: Dispute resolution procedure</p> <p>X1: Price adjustment for inflation</p> <p>X2: Changes in the law</p> <p>X17: Low service damages</p> <p>X18: Limitation of liability</p> <p>X19: Task Order</p> <p>Z: Additional conditions of contract</p>
	of the NEC3 Term Service Contract April 2013 ² (TSC3)	
10.1	The <i>Employer</i> is (name): Address	<p>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</p> <p>Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg</p>
10.1	The <i>Service Manager</i> is (name): Address Tel Fax e-mail	<p>Ms Lisinda Williams</p> <p>Eskom Holdings SOC Limited Koeberg Nuclear Power Station R27 Off West Coast Road Melkbosstrand, Western Cape Republic of South Africa 7441</p> <p>021 550 4751</p> <p>086 664 3751</p> <p>Lisinda.Williams@eskom.co.za</p>
11.2(2)	The Affected Property is	Koeberg Operating Unit

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

11.2(13)	The <i>service</i> is	The Provision of an Industrial Cleaning Service for Koeberg Nuclear Power Station
11.2(14)	The following matters will be included in the Risk Register	<ul style="list-style-type: none"> • 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	1 (one) week: Routine Maintenance and Projects 1 (one) day: Outage periods
2	The Contractor's main responsibilities	Data required by this section of the core clauses is also provided by the Contractor 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.	01 September 2024
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	The last day of each successive month.
51.1	The <i>currency of this contract</i> is the	South African Rand
51.2	The period within which payments are made is	30 days following receipt of a valid tax invoice.
51.4	The <i>interest rate</i> is	<p>the publicly quoted prime rate of interest (calculated on a 365 day year) charged by from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and</p> <p>(ii) the LIBOR rate applicable at the time for amounts due in other currencies. LIBOR is the 6 month London Interbank Offered Rate quoted under the caption "Money Rates" in The Wall Street Journal for the applicable currency or if no rate is quoted for the currency in question then the rate for United States Dollars, and if no</p>

such rate appears in The Wall Street Journal then the rate as quoted by the Reuters Monitor Money Rates Service (or such service as may replace the Reuters Monitor Money Rates Service) on the due date for the payment in question, adjusted *mutatis mutandis* every 6 months thereafter (and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.

6	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	Additional risk (if any) to be identified and recorded in the risk register during contract execution
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	the Chairman for the time being or his nominee												
	- if the arbitration procedure does not state who selects an arbitrator, is	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	Month before tender closing												
	The proportions used to calculate the Price Adjustment Factor are:	<table border="1"> <tr> <td>proportion</td> <td>linked to index for</td> <td>Index prepared by</td> </tr> <tr> <td></td> <td>SEIFSA table C3 Actual Labour cost</td> <td>SEIFSA</td> </tr> <tr> <td>90</td> <td>non-adjustable</td> <td>10</td> </tr> <tr> <td>1.00</td> <td></td> <td></td> </tr> </table>	proportion	linked to index for	Index prepared by		SEIFSA table C3 Actual Labour cost	SEIFSA	90	non-adjustable	10	1.00		
proportion	linked to index for	Index prepared by												
	SEIFSA table C3 Actual Labour cost	SEIFSA												
90	non-adjustable	10												
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													
X17.1	The service level table is in	Refer to C3.1, Section 1.4												
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	the amount of the deductibles relevant to the event												
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 <ul style="list-style-type: none"> 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 *Contractor* is liable under this contract for

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

X18.5	The <i>end of liability date</i> is	12 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	7 days of receiving the Task Order
Z	The additional conditions of contract are	Z1 to Z14 always apply.

Z1 Cession delegation and assignment

- Z1.1 The *Contractor* does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the *Employer*.
- Z1.2 Notwithstanding the above, the *Employer* may on written notice to the *Contractor* 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 *Contractor* 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 *Employer* for the performance of this contract.
- Z2.2 Unless already notified to the *Employer*, the persons or organisations notify the *Service Manager* within two weeks of the Contract Date of the key person who has the authority to bind the *Contractor* on their behalf.
- Z2.3 The *Contractor* does not alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without the consent of the *Employer* having been given to the *Contractor* in writing.

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

- Z3.1 Where a change in the *Contractor's* legal status, ownership or any other change to his business composition or business dealings results in a change to the *Contractor's* B-BBEE status, the *Contractor* notifies the *Employer* within seven days of the change.
- Z3.2 The *Contractor* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Service Manager*

within thirty days of the notification or as otherwise instructed by the *Service Manager*.

- Z3.3 Where, as a result, the *Contractor's* B-BBEE status has decreased since the Contract Date the *Employer* may either re-negotiate this contract or alternatively, terminate the *Contractor's* obligation to Provide the Service.
- Z3.4 Failure by the *Contractor* to notify the *Employer* of a change in its B-BBEE status may constitute a reason for termination. If the *Employer* terminates in terms of this clause, the procedures on termination are P1, P2 and P4 as stated in clause 92, and the amount due is A1 and A3 as stated in clause 93.

Z4 Confidentiality

- Z4.1 The *Contractor* does not disclose or make any information arising from or in connection with this contract available to Others. This undertaking does not, however, apply to information which at the time of disclosure or thereafter, without default on the part of the *Contractor*, enters the public domain or to information which was already in the possession of the *Contractor* at the time of disclosure (evidenced by written records in existence at that time). Should the *Contractor* disclose information to Others in terms of clause 25.1, the *Contractor* ensures that the provisions of this clause are complied with by the recipient.
- Z4.2 If the *Contractor* is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the *Service Manager*.
- Z4.3 In the event that the *Contractor* is, at any time, required by law to disclose any such information which is required to be kept confidential, the *Contractor*, to the extent permitted by law prior to disclosure, notifies the *Employer* so that an appropriate protection order and/or any other action can be taken if possible, prior to any disclosure. In the event that such protective order is not, or cannot, be obtained, then the *Contractor* may disclose that portion of the information which it is required to be disclosed by law and uses reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed.
- Z4.4 The taking of images (whether photographs, video footage or otherwise) of the Affected Property or any portion thereof, in the course of Providing the Service and after the end of the *service period*, requires the prior written consent of the *Service Manager*. All rights in and to all such images vests exclusively in the *Employer*.
- Z4.5 The *Contractor* ensures that all his subcontractors abide by the undertakings in this clause.

Z5 Waiver and estoppel: Add to core clause 12.3:

- Z5.1 Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, the *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*:
- accepts that the *Employer* may appoint him as the "Principal Contractor" (as defined and provided for under the Construction Regulations 2014 (promulgated under the Occupational Health & Safety Act 85 of 1993) ("the Construction Regulations") for the Affected Property;
 - warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with the Construction Regulations, all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this contract and generally for the proper maintenance of health & safety in and about the

- execution of the *service*; and
- undertakes, in and about the execution of the *service*, to comply with the Construction Regulations and with all applicable health & safety laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the *Contractor's* direction and control, likewise observe and comply with the foregoing.

Z6.2 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 Action means any unlawfully or illegally intentional act or omission that misleads, or attempts to mislead, an Affected Party, in order to obtain a financial or other benefit or to avoid an obligation or incurring an obligation,

Obstructive Action means a Committing Party unlawfully or illegally destroying, falsifying, altering or concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and

Prohibited Action means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.

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 Liability

- Z13.1 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 47 of 1999, save to the extent that any liabilities are incurred due to the unlawful intent of the *Contractor* or any other person or the presence of the *Contractor* or that person or any property of the *Contractor* or such person at or in the KNPS or on the KNPS site, without the permission of the *Employer* or of a person acting on behalf of the *Employer*.
- 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 47 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 in order to control asbestos exposure to prevent exceeding the OEL.
- Ambient Air** means breathable air in area of work with specific reference to breathing zone, which is defined to be a virtual area within a radius of approximately 30cm from the nose inlet.

Compliance Monitoring	means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
OEL	means occupational exposure limit.
Parallel Measurements	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
Safe Levels	means airborne asbestos exposure levels conforming to the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
Standard	means the <i>Employer's</i> Asbestos Standard 32-303: Requirements for Safe Processing, Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos Containing Material, Equipment and Articles.
SANAS	means the South African National Accreditation System.
TWA	means the average exposure, within a given workplace, to airborne asbestos fibres, normalised to the baseline of a 4 hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

- 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

Notes to a tendering contractor:

1. Please read both the both the NEC3 Term Service Contract April 2013 and the relevant parts of its Guidance Notes (TSC3-GN)³ in order to understand the implications of this Data which the tenderer is required to complete.
2. The number of the clause which requires the data is shown in the left hand column for each statement however other clauses may also use the same data.
3. Where a form field like this [] appears, data is required to be inserted relevant to the option selected. Click on the form field **once** and type in the data. Otherwise complete by hand and in ink.

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

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

³ Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 5391902 or www.ecs.co.za

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

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

PART 2: PRICING DATA

TSC3 Option A

Document reference	Title	Page Nos
C2.1	Pricing assumptions: Option A	[21]
C2.2	The <i>price list</i>	[22]

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.

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;
- 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*

The Price List is in two parts. Part 1 is for work described in the service Information pertaining to online and outage work. Part 2 is for work to be carried out within a stated period of time on a task-by-Task basis and instructed by Task Order. The service may comprise work under Part 1 only or a mix of both.

The rates and Prices entered for each item includes for all work, equipment, and other things necessary to complete the item.

C2.2 the *price list*

Part 1

1.1 Online Work

Item no.	Description	Unit	Quantity	Fee/month	Total
1	Monthly Service Fee	LE	30		

Total of the Prices for Part 1.1

NOTES TO PRICE LIST:

- a) The above price exclude VAT.
- b) The fee offered is to be fixed for the first 12 months of the contract period. Thereafter, 10% of the applicable rate will remain fixed for the duration of the contract period and 90% of the applicable rate will be subject to adjustment in accordance with CPI, base date April 2024.
- c) The price includes the supply of all materials, cleaning equipment, chemicals, consumables, labour, health and safety and services for the planning, execution and acceptance of cleaning activities.
- d) Refer to Section 1.2.2 for requirements, also refer to Section 5.2 for working hours.
- e) The Employer may adjust the number of crews to a minimum of four (4) at any time depending on the work requirements.

1.2 Outage Work

Item no.	Description	Unit	Quantity	Fee/month	Total
1	Monthly Service Fee	LE	30		

The total of the Prices for Part 1.2

NOTES TO PRICE LIST:

- a) The above price exclude VAT.
- b) The fee offered is to be fixed for the first 12 months of the contract period. Thereafter, 10% of the applicable rate will remain fixed for the duration of the contract period and 90% of the applicable rate will be subject to adjustment in accordance with CPI, base date April 2024.
- c) The price includes the supply of all materials, cleaning equipment, chemicals, consumables, labour, health and safety and services for the planning, execution and acceptance of cleaning activities Refer to Section 1.2.3 for requirements, also refer to Section 5.2 for working hours.
- d) The *Employer* may adjust the number of staff at any time after the completion of the outage maintenance window period to online crew for day shift and a skeleton crew for night shift.

❖ **Provisional Outage schedule**

During the *Contract* period, the *Employer* will have 6 (six) provisionally planned outages as indicated on the Koeberg 10 Year Production Plan Rev 74A

Outage	Unit 1	Start	Finish
1 st Outage	127	21 July 2024	06 February 2025
2 nd Outage	227	08 September 2025	27 March 2026
3 rd Outage	128	10 August 2026	27 September 2026
4 th Outage	228	09 August 2027	26 September 2027
5 th Outage	129	28 February 2028	28 April 2028
6 th Outage	229	26 February 2029	27 April 2029

Note: The above schedule is **ONLY** a provisional schedule and it may change as the Employer's 10-year Production Plan is affected. The Contractor will be notified within 30 days if the requirement is to change.

Labour rates					
Item	Description	Charge out rate	Actual rate paid to employee		
			Direct	Indirect	TOTAL
		Hourly Rate	Hourly Rate	Hourly Rate	Hourly Rate
1	Site Manager				
2	Supervisor				
3	Team Leader				
4	Semi-skilled Worker				
5	Admin Clerk				
6	Safety Officer				
7	Work Package Compiler				
8	Standby	Daily Fee			
9	Call-outs	Will be charged at minimum no. of hours. Minimum of 4 hours at the charge out rate			

NOTES TO PRICE LIST:

- a) The above rates exclude VAT.
- b) The rates offered are to be fixed for the first 12 months of the contract period. Thereafter, 10% of the applicable rate will remain fixed for the duration of the contract period and 90% of the applicable rate will be subject to adjustment in accordance with SEIFSA Table C3, base date April 2024
- c) The **Direct rate** is the actual rate as defined on the price list that the *Contractor* will pay to his employees. *The Employer* has the right to audit the *Contractor's* records, to ensure that the *Contractor* pays the rates as indicated in the price list.
- d) The **Direct rate** is the rate paid to the individual. The *Employer* has the right to audit the record of the Contractor to ensure that this rate is paid to the employees.
- e) The **Indirect rate** is all cost paid to institutions by the *Contractor* on behalf of the employee as legislated.

- f) The **Total** rate is the sum of the total remuneration package inclusive of benefits, PPE and money paid to institutions by the *Contractor* on behalf of the employee as legislated (i.e Direct + Indirect Rate = Total Rate).
- g) The **Charge** out rate is the Total Rate + % Mark-up.

Part 2

2.1 Ad-hoc activities

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

2.1.1 Cleaning of stormwater lines				
Description	Unit	Estimated Quantity/Anum	Rate	Price
Cleaning of stormwater lines via Vacuum truck	m	4000		
2.1.2 Cleaning of inaccessible areas by means of absailers				
Description	Unit	Estimated Quantity/Outage	Rate	Price
Team Leader/Supervisor (Level 3) NT	H	120		
Team Leader/Supervisor (Level 3) OT @ 1.5	H	64		
1 x Rope Access Technician (Level 2) NT	H	120		
1 x Rope Access Technician (Level 2) OT@ 1.5	H	64		
2 x Rope Access Practitioner (Level 1) NT	H	240		
2 x Rope Access Practitioner (Level 1) OT@ 1.5	H	128		

The total of the Prices for Part 2.1

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PART 3: SCOPE OF WORK

Document reference	Title	Page Nos
C3.1	This cover page <i>Employer's Service Information</i>	[26]

C3.1: EMPLOYER'S SERVICE INFORMATION

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1 Description of the service

1.1 Executive overview

The provision of an Industrial cleaning service encompasses the following:

- i. The supply of all materials, cleaning equipment, chemicals, consumables, labour and services for the planning, execution and acceptance of plant cleaning activities.
- ii. Site establishment, effective resource scheduling and pre-job planning to ensure no delays to the *Employer's* scheduled maintenance activities.
- iii. The provision of suitably qualified labour, including all expenses related to labour, such as transport to site, PPE, burdens and benefits, etc.
- iv. The provision of a capable site management team, in accordance with the *Employer's* requirements, including quality assurance, quality control and safety management, and acceptable supervision for the performance of the service.
- v. Performance of the service in accordance with general site requirements regarding controlled access, storage of materials and safe working practices.
- vi. The *Contractor* provides the service above at an all-inclusive monthly service fee (online and outage) and inclusive of:
 - 8 Online crews – refer to online maintenance work below for crew composition
 - 2 Work package compilers – refer to online maintenance work in Section 1.2
 - 9 Outage crews – refer to outage specific requirements in Section 1.2
 - Management Function – refer to Sections 2.3.1 and 2.3.3.
- vii. The provision of absailers for cleaning inaccessible areas.
- viii. Cleaning of stormwater lines by means of a vacuum truck.

1.2 *Employer's* requirements for the service

1.2.1 Service Activation Framework

The *Employer* expects the *Contractor* to provide cleaning crews to perform maintenance. Industrial Cleaning should use mechanical cleaning methods and water washing wherever possible. Only in those areas where mechanical cleaning or water-washing are not viable, as the plant and machinery do not allow for safe operation, manual cleaning methods are applied. Cleaning equipment must be highly reliable, and the *Contractor* must ensure proper maintenance of his equipment. Restricted areas, because of the dangers attached and regulatory requirements will be cleaned under supervision of authorised persons only. The *Contractor* should perform a Risk assessment of the area to be cleaned prior to execution and notify the *Employer* if he is unsure how to proceed. Refer to Annexure 1 for job descriptions and requirements for key Personnel: Site Manager, Supervisor, Execution Supervisor, Safety Officer, Work Package Compiler, Rope Access Team Leader/Supervisor and Rope access Technician.

1.2.2 Online Maintenance work

The maintenance crews shall be required to perform the cleaning service in accordance with the Clients work management system (refer to the Annexure 2 – Typical Online work scope, attached as a guide to the type of activities which are to be expected).

The *Contractor* is to provide 8 (eight) cleaning crews, each with the following composition:

1 (One) Team Leader, and 4 (Four) Cleaners

Two work package compilers shall be required to perform the compilation of cleaning work packages in accordance with the relevant Koeberg procedures.

The Site Manager is required to inform the *Employer's* Duly Authorised Supervisor on a daily basis before 08H30 every morning if all his resources reported for duty, and the corrective actions he

implemented to counter any absences. It is the *Contractor's* responsibility to ensure that his cleaning crews are properly staffed, and have the necessary tools of the trade (PPE, consumables, cleaning materials etc.). The *Employer* will not entertain any excuses for low performance or delayed work as a result of absenteeism. The *Contractor* must report unacceptable conditions to the *Employer*.

Any queries, reports, concerns and requests resulting from walk downs, unacceptable cleaning, 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.

All materials shall be ordered and received on time, satisfactory maintained and managed, and all work shall be performed on the basis of "do-it-right-first-time."

1.2.3 Outage specific requirements

In the event of an outage, 1 (One) additional crew, a supervisor and safety officer is required. The composition of the outage teams is similar to the online crews, all teams will work as per the outage shift roster, (refer to the Annexure 3 – Typical outage work scope, attached as a guide to the type of activities which are to be expected).

Cleaning Services provides 24-hour cover during an outage, see table below for shift requirements.

Crew (dayshift – 12 hours)	LE	5
Crew (nightshift – 12 hours)	LE	4
Supervisor (dayshift – 12 hours)	LE	1
Supervisor (nightshift – 12 hours)	LE	1
Site Manager (dayshift – 12 hours)	LE	1
Safety Officer (dayshift – 12 hours)	LE	1
Safety Officer (nightshift – 12 hours)	LE	1
Work Package Compiler (dayshift – 12 hours)	LE	1
Work Package Compiler (nightshift – 12 hours)	LE	1
Admin Clerk (dayshift – 12 hours)	LE	1

The *Employer* shall not entertain any delays or disruptions as a result of the *Contractor* in the period leading to and during each outage. The *Contractor* is required to effectively schedule his resources in order to comply with the completion dates prescribed by the *Employer*, ensuring that supervisory and other personnel are suitably competent, and that the required ratio of supervision to workforce (1:4) at all times are complied with.

Any queries, reports, concerns and requests resulting from walk downs, unacceptable cleaning, 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.

The *Contractor* should constantly monitor and report the cleanliness of the outage unit. The *Contractor* must report unacceptable conditions to the *Employer*.

All materials shall be ordered and received on time, satisfactory maintained and managed, and all work shall be performed on the basis of "do-it-right-first-time."

1.2.4 Ad-hoc activities

1.2.4.1 Cleaning of stormwater lines

Requirements for the service:

- High pressure water jetting to blast out debris and sand from the storm water system.
- Vacuuming out of debris into a truck for dumping off site.
- Dumping of debris to take place at an approved dumping site.
- Contractor to provide proof of documentation for dumping.

The cleaning of the stormwater lines is an annual activity and will include the following areas, also refer to Annexure 4.

A/ West Side(SEK Tank Area):

Cleaning of the 300mm dia. storm water line from debris

B/ North Side(Unit 1 Rx Building Next To Boiler House):

Cleaning of the 300mm dia. Storm water line from sand

C/ East Side(Turbine Hall):

Cleaning of the 300mm dia. Storm water line from sand

D/ General cleaning of the complete storm water system from sand and debris

1.2.4.2 Cleaning of inaccessible areas by means of absailers

Requirements for the service:

- To do cleaning of pipe work, waterboxes, vessels, crane girders, main vertical & diagonal beams, ducting, cable trays etc. in various areas as and when required.
- To do any other cleaning work that might require "Rope Access" in the areas listed below:
 - Turbine Hall
 - MMS,MWS,ISI,MAB and other buildings as the need arise
- All work is to be performed in accordance with SANS 10333-1:2006 ; SANS 10333-2:2006 ; SANS 10333-3:2006; SANS 33
- Institute for Work at Height (IWH) membership number – approved for– Fall Arrest and Rope Access (membership listed on www.ifwh.co.za) required.

1.3 Interpretation and terminology

The following abbreviations are used in this Service Information:

Abbreviation	Meaning given to the abbreviation
ACP	Access Control Point
FFD	Fitness for Duty
KTC	Koeberg Training Centre
KOU	Koeberg Operating Unit
FME	Foreign Material Exclusion
PPE	Personal Protective Equipment
MMS	Mechanical Maintenance Services
MWS	Maintenance Workshops
ISI	In Service Inspection
MAB	Main Admin Building
SAP	System Applications Processes
QCP	Quality Control Plan
OHSA	Occupation Health & Safety Act
TSC	Term Service Contract
SDL&I	Supplier Development Localisation & Industrialising

1.4 Low Service Damages

Service Level Table

Each occurrence is documented and mutually agreed by both parties. A Monthly Performance Review report shall be completed by the Maintenance Senior Supervisor and *Contractor* Site Manager for submission to the Contract Manager. All low service damages shall be calculated on the total assessment value (i.e. value including all costs) of each completed month.

Item	Description	Service level	Low service Damage
1	Behavioural Safety Observations	Maintenance Targets met for all categories	Minus 1%
2	Housekeeping	High risk areas kept to an acceptable standard, with no significant findings identified during management plant inspections for more than 4 areas	Minus 2%
3	Work Management	No notifications older than 7 days	Minus 1%
4	Schedule adherence	Schedule adherence - Work week execution must be $\geq 95\%$	Minus 1%
5	Human Performance	Zero Station HP clock resets	Minus 2%

Item 1: Maintenance Targets for Behavioural Safety Observations

- Supervisor – 2 per week
- Site Manager with Eskom Delegate – 2 per month
- Safety Officer – 1 per week

Item 2: Housekeeping findings are limited to significant cleanliness issues highlighted during Management Plant Inspections for the below areas:

- Unit 1 Turbine Hall 0m
- Unit 1 Turbine Hall -6m
- Unit 1 Turbine Hall 9.5m
- Unit 2 Turbine Hall 0m
- Unit 2 Turbine Hall -6m
- Unit 2 Turbine Hall 9.5m
- Boiler House
- Unit 1 SEC Pump Station (Train A & B)
- Unit 2 SEC Pump Station (Train A & B)
- Unit 1 CRF Pump Station
- Unit 2 CRF Pump Station
- 1LHQ Diesel Building
- 1LHP Diesel Building
- 2LHQ Diesel Building
- 2LHP Diesel Building
- 9LHS Diesel Building

Item 4: While the *Contractor* will perform its duties with due diligence and take all necessary care, there are certain exemptions to the applicability of this clause.

- Where delays are experienced as a result of others, the *Contractor* will not be penalised
- When support groups unavailability causes delays, the *Contractor* will not be penalised, provided that such unavailability was communicated timeously
- When failures outside of the *Contractor's* control (eg operator error, loss of electrical supplies, loss of cooling or deterioration of cooling outside recommended operating temperatures, fire, flood, catastrophic failure) the *Contractor* will not be penalised
- Should ageing of equipment result in more frequent failures, the targets will be adjusted accordingly. This adjustment will be done after each 3 monthly performance evaluation.

Item 5: The Station Event-Free Clock Program has been developed to provide an indicator of human performance at Koeberg, Document KGA-097 provides the criteria for a Station HP Clock reset. All criteria are captured in the following categories to be consistent with industry practice:

- Nuclear Safety
- Radiological Safety
- Industrial Safety
- Facility Operation
- Regulatory
- Emergency Preparedness

2 Management strategy and start up.

2.1 The Contractor's plan for the service

The *Employer* is responsible for all planning of work and will provide the *Contractor* with a detailed plan well in advance. The *Contractor* needs to take note that the plant is always live, and plans are changed frequently during outage periods to meet plant demands. During shutdowns the *Contractor* will be provided with a 3-day plan

The *Employer* schedules the activities, and the works shall be executed as per the work order generated by the Service Manager's SAP PM Program, the working procedures and approved QCP, where applicable.

The *Contractor* may only execute certain works if the necessary work permits have been approved by the *Employer*.

All works is governed by the *Employer's* work control process. The *Contractor* (Supervisor) will be issued with the work package and the relevant works therein describing the works that must be performed and on which equipment works must be performed.

2.2 Management meetings

The Service Manager arranges quarterly meetings, or as and when necessary and agreed to, on site at a time to suit attendance by both the Service Manager and the *Contractor* throughout the service period. Either Party may invite others to attend the meeting after notifying the other party, but the Service Manager and the *Contractor's* Project Manager may not delegate their attendance to others. No matters mentioned in this meeting are considered as formal contractual communication and each matter is communicated separately.

The Service Manager holds ad hoc risk reduction meetings (Clause 16.2). During this meeting the Parties discuss safety, compensation events, subcontracting (If Applicable), overall co-ordination and other matters of a general nature.

Separate meetings for specialist activities, such as planning and activities of a technical nature, are convened on an operational level between the duly authorised representatives of the Service Manager and their *Contractor* counterparts. 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.

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

Title and purpose	Approximate time & interval	Location	Attendance by:
Work planning and execution	Before execution of work	To be confirmed	<i>Eskom Supervisor</i> <i>Contractor</i>
Risk register and compensation events	As and when required	To be confirmed	<i>Service Manager,</i> <i>Contractor</i>
Overall contract progress	Annually on a date and time agreed upon by the <i>Service Manager</i> and <i>Contractor</i>	To be confirmed	<i>Service Manager,</i> <i>Contractor</i> <i>Eskom Supervisor</i>
Defects	As and when required	To be confirmed	<i>Eskom Supervisor,</i> <i>Contractor</i>

2.3 Contractor's management, supervision and key people

The *Employer's* standard for management and control of supplemental workers at KOU is documented in KSA-119.

The *Contractor* employs in and about the Provision of the Service only such persons that are careful, competent and efficient in their trades and callings, to achieve nuclear safety.

All personnel shall be suitably qualified and have the necessary experience to perform the required works as described in Annexure 1. 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 and require the *Contractor* to remove from the service, forthwith, any person employed by the *Contractor* in or about the Provision of the Service who, in the opinion of the Service Manager, misconduct's himself or is incompetent or negligent in the performance of his duties and such person is not again employed for the service without the written permission of the Service Manager.

The *Contractor* ensures that the *Contractor's* employees are reasonably fluent in the language of the contract.

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.

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.

The *Contractor* provides an organogram of his resources and reporting structure that includes all resources utilised at the *Employer's* site. The *Contractor* provides this information on contract starting date and informs the Service Manager of any changes. The information includes contact details.

2.3.1 Contractor's Service Management Requirements

The *Contractor's* Site Management Team is to be representative of the following disciplines:

- Site Manager
- Supervisor
- Execution Supervisor
- Admin clerk
- Safety Officer

2.3.2 Reports Required

- Summary and reasons on sections of the works delayed - daily
- Materials received and on hand – monthly

2.3.3 Responsibilities of the site management team:

The *Employer* expects the Site management team of the *Contractor's* to ensure and drive compliance.

As a minimum requirement, the *Employer* expects the *Contractor's* Site management to have the authority to make decisions on the operational and managerial aspects of the service.

The responsibilities of the Site management team shall further include:

- Attendance of all daily supervisor 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 OHS requirements are complied with;
- Ensure that all required permits are requested and issued prior to the commencement of work;
- Payment of the total telephone account when the *Employer's* telephone account system is utilised by the *Contractor*.
- 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 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.

2.3.4 Responsible Person

It is recommended that the *Contractor* should have at least 1 (one) person trained and certified as a Responsible Person or an Authorised Supervisor for the execution of work in terms of the Plant Safety Regulations.

The legislative authorisation of a Responsible Person at the site must be accompanied by at least 2 (two) years plant experience. The Authorised Supervisor authorisation does not carry the same requirement.

2.3.5 Safety management

The *Employer* expects the *Contractor* and his staff to perform their service in accordance with the prescribed safety regulations and legislation. Toolbox talks, health and safety management and the attendance of safety meetings are mandatory. The Supplier is urged to encourage a safety culture amongst their personnel and strive to maintain a perfect safety record.

2.3.6 Co-operation and standard of service

In providing the Services, the *Contractor*

- Makes it his business to gain sufficient understanding relevant to the services and the *Employer's* objectives.
- Seeks out everything necessary to identify those matters that fall fully or partially within the scope of the services, whether or not such matters are addressed in the description of the services or in the Scope or in other requirements for the services stated from time to time.
- Brings to the attention of the *Employer* any additional services that the *Contractor* believes should

be performed by him in keeping with sound professional practice.

- Notifies the *Employer* of any matter that the *Contractor* disagrees with or cannot resolve to his satisfaction.
- Co-operates at any time with an independent person appointed by the *Employer* to review work done by the *Contractor* in Providing the Service.
- Co-operates and provides information as required by the *Employer* for issues affecting and improving, either inside or outside the scope of the services.
- Makes his own assessment of the problems and difficulties which may be encountered and no claim of any kind will be allowed on account of providing reasonable access to other contractors as detailed above, or for the requirement of working adjacent to, or in the same area, as other contractors operations.

2.3.7 Supervision

The *Contractor* is expected to provide the total infrastructure to competently fulfill the requirements of this Service. This shall include adequate management and qualified and competent supervision.

2.3.8 Contractor Technical Criteria

The *Contractor* must meet the following criteria:

- have a proven track record in industry
- be able to supply references to previous projects undertaken
- supply medically fit and suitably qualified staff as specified
- supply staff who can be declared medically fit in terms of heat stress/confined space
- be able to supply staff with no criminal record
- 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
- provide 24-hour standby coverage
- provide 24-hour service during outage periods
- provide transport during and outside of outages to Koeberg standards
- pay a market related wage to workforce
- supply Personal Protective Equipment (PPE) to workforce to Koeberg standards

2.4 Documentation control

The *Contractor* abides by the *Employer*' standards and conforms to any confidentiality agreement between the Parties. The *Contractor* notifies the *Service Manager* as soon as he becomes aware of any issue that may impact on the agreed standard of control of documents.

The exchange between the Parties or the disclosure to third parties of information is subject to the provisions of the Nuclear Energy Act 92 of 1982, the National Key Points Act 102 of 1980 and the Protection of Information Act 84 of 1982.

The *Employer*, on request from the *Contractor*, provides copies of all applicable *Employer* standards, procedures, guides and forms.

The *Employer* provides access to all available Affected Property documentation required for Providing the Service.

The *Contractor* provides a list of persons that require authorisation, by the *Service Manager*, for requesting copies of Affected Property documentation.

The *Service Manager* only authorises the relevant personnel once the *Contractor* has signed the Confidentiality and Non-Disclosure Agreement.

Copy requests are made in writing, to the *Service Manager*, and details the exact documentation identification numbers. Documentation is provided in accordance with the latest Accepted Plan

All communication is addressed to the *Service Manager*, as applicable per the TSC conditions. All communication makes reference to:

- the contract number that is issued by the *Employer* (normally a 46000xxxxx number),
 - the title of the contract,
 - any previous references relating to the specific communiqué (i.e. a response to a *Service Manager's* communication),
 - the specific TSC clause under which the communication is issued,
 - whether a reply is required; and
 - a unique letter reference number.
-
- The unique reference number to be used for written correspondence between the *Service Manager* and *Contractor* and vice versa is as follows:
 - From the *Service Manager* to the *Contractor*: 46000..... E/C 0xxx
 - From the *Contractor* to the *Service Manager*: 46000..... C/E 0xxx
 - and xxx referring to the next sequential letter number.

All document deliverables transmitted to the *Service Manager* for review / acceptance / record / information are transmitted under formal communication with an associated document transmittal cover document. Related CDs, data-cards or hardcopy documents are delivered with a hardcopy copy of the formal communication and/or document transmittal to the *Employer's* nominated information controller – situated on Affected Property.

The title of each letter clearly summarises the purpose of the letter. In accordance with TSC Core Clause 13.7, each notification deals with only one specific issue at a time. In the case where letters are submitted electronically by means of email, the title of the letter is reflected in the subject line and only one letter is submitted per email.

2.5 Invoicing and payment

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

The *Contractor* ensures that the requirement in terms of Section 20(4) (C) of the Value Added Tax Act, no 89 of 1991 (as amended by the Revenue Laws Amended Act 45 of 2003), that the VAT registration number of the recipient of the tax invoice, appears on the said tax invoice in order for the invoice to fully comply with the requirements of a valid invoice for VAT purposes as contained in the said Section 20(4) (C), is adhered to. The *Employer* requires adherence by the *Contractor* to this requirement, applicable from 1 June 2004. No payment will be made on tax invoices not fully meeting the requirement.

The *Contractor* sends an original Tax invoice to the *Employer's* Financial Accounting group via email. The payment period will start from the date and time at which the invoice and all relevant documentation were received at this office.

The *Employer's* VAT Registration number is: 4740101508.

Particulars to be included on the *Contractor's* Tax Invoice:

- Name and address of the *Contractor* and the *Service Manager*;
- The contract number and title;
- The date of the invoice;
- An invoice number;

- Contractor's VAT registration number (if applicable);
- Employers VAT registration number - 4740101508;
- Reference to Contract and/or SAP Task Order number;
- The value of the invoice split into payments as per the activity schedule;
- A descriptive title of the service covered by the Invoice and/or the Contract's assessment number;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT

To enable payment against each applicable SAP generated Task Order the *Service Manager* and the *Contractor* must sign next to each line acceptance of the *service*, Plant and Materials or goods delivered on the applicable SAP generated Task Order. The *Service Manager* includes the Goods Receipt Number (GRN) on the SAP generated Task Order. The signed copy of this SAP generated Task Order is promptly returned to the *Service Manager*.

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 showing the amount due for payment equal to that stated in the *Service Manager*'s payment certificate.

All invoices must be emailed in .pdf format to Invoiceseskomlocal@eskom.co.za
 Supplier statements must be emailed to Statementseskom@eskom.co.za

2.6 Contract change management

For compensation events to be implemented, the *Employer* requires the *Contractor* to sign a compensation event register form. For any payments required because of the compensation event, the *Contractor* is required to submit the signed compensation event register form, at latest, prior to the 15th of the month in which any associated amount should be assessed. This is to allow sufficient time for the *Employer* to load the associated costs onto its SAP system.

It is specifically stated that the *Employer* will not accept any forecasted payments relating to "compensation event acceptance".

2.7 Insurance provided by the Employer

The *Employer* provides the insurances as stated in the Contract Data.

2.8 Supply of Equipment

All equipment will be supplied by the *Contractor*, excluding high pressure cleaning machine used to clean the Koeberg Transformer fans, and shall comply with all applicable legislation, standards and specifications.

TYPICAL EQUIPMENT USED			
<i>The Contractor is obliged to supply all cleaning equipment required. This will include but are not limited to the items below:</i>			
Description	Quantity	Description	Quantity
Big wet/dry vacuum cleaner	5	Spades	10
Small wet/dry vacuum cleaner	5	Leads	6
Medium size wet/dry	5	Road sweeper	1
High Pressure cleaning machines	3	Buckets (20l)	10
Scrubbing machines	4	Torches	10
Double bucket mop trolley with wringer	4	Mops	30
Trolleys	4	Steel scrapers	20
Deck scrubber	4	Lead Lights	4
Wheelbarrow	10	Plastic scrapers	10

Step ladder 2.1m	4	Oilcap spray cans	4
Step ladder 2.4m	4	Hard Brooms	20
Large extension ladder	1	Oxygen monitors	10
Feather dusters	6	Soft Brooms	40
Hosepipes (50m)	4	Water squeegees	10
MSA Multigas Monitor	4	Scoops	4

2.9 Management of work done by Task Order

Work against this contract can only be performed upon receipt of a Task Order. No amount of work is guaranteed under this contract.

The *Employer* can issue a Task Order or a revision thereof without first seeking a proposal from the *Contractor*.

The *Contractor* performing work without a SAP task order is done at the risk of non-payment by the *Service Manager*.

The Task Order will include the following information:

- A description of Works
- Task Order reference number
- The *Employer's Representative* or *Employer's Site Supervisor* who will be the contact person for all matters concerning the applicable Task Order, including technical direction.
- The contract reference number allocated to the contract.

Unless the *Contractor* notifies the *Employer* in writing within the period for 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.

Any Task Order that is not signed by the duly authorized representative of the *Employer* is void and of no effect, and the *Contractor* shall not be compensated for any work performed pursuant to such Task Order.

3 Health and safety, the environment and quality assurance

3.1 Health and safety risk management

The *Contractor* shall at all times comply with the *Employers* legal and other requirements as amended for the duration of the contract. In addition, the *Contractor* shall comply with the health and safety requirements stated in Annexure 5 - SHE Specification. Eskom reserves the right to terminate the contract, if the *Contractor* has built up a history of poor performance or non-conformance in relation to matters of occupational health and safety and legal compliance.

No work may begin until the Health and Safety file has been approved by the Koeberg OH&S Group. For the length of the contract, the contractor shall adhere to the Koeberg, legal, and other requirements, as amended.

The *Contractor* promotes a culture that is dedicated to continuously striving to enhance nuclear safety.

The *Employer* defines appropriate safety objectives for the KOU, and the *Contractor* is also responsible for meeting those objectives, instilling a philosophy of personal excellence, and timely identification and resolution of safety problems.

The *Contractor* is responsible for continuously pursuing enhancements to safety, not just complying with a minimal set of legal requirements.

The Supplier shall ensure that all staff is adequately trained for the execution of their tasks in the most up to date techniques and according to any Certificate or Act binding to the task.

All individuals exposed to chemical substances that are potentially hazardous to the employees, to receive the necessary Chest X-rays/Special test. The *Contractor* will be liable for the arrangement and payment there-of.

3.2 Environmental constraints and management

The *Contractor* will ensure compliance with regards to disposal of all materials/waste water. As stipulated in document KAE 012.

The *Contractor* shall comply with the environmental criteria and constraints stated in Annexure 5 - SHE Specification

3.3 Quality assurance requirements

- The *Contractor* complies with the general quality requirements of 238-103 Rev 2.
- The works described in this contract are classified Q3/L3 and the material supply is classified Q3/L3.
- The *services* are subject to a formal Quality Assurance Program that is aligned to the requirements of ISO 9001:2015.
- The *Contractor* shall comply with the quality requirements stipulated in 238-103 Rev 2 and DSG-317-094.
- The *Contractor's* quality management system is subject to the acceptance by the *Employer*.
- The *Contractor* ensures that any sub-contractor employed by him has and implements a Management System to meet the quality assurance requirements of the *Employer*.
- The *Employer* reserves the right to at any time audit and/or monitors the control between the *Contractor* and subcontractor, as well as the performance of the *Contractor's* subcontractor. Such audits are done by prior notification and in liaison with the *Contractor*.
- The *Contractor* ensures that his staff and subcontractors are conversant with the content of the *services* as defined by the Service Information, quality control plans / work plans and work instructions.



4 Procurement

4.1 People

4.1.1 Minimum requirements of key people employed

Replacement of key personnel during the contract shall be subject to approval by the *Employer*. Refer to Annexure 1 for full requirements and responsibilities.

4.1.1.1 Site Manager

Site Manager shall:

- have a minimum of 5 years' experience in the industrial cleaning environment;
- 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;

- 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;

4.1.1.2 Supervisor (Industrial Cleaning)

Supervisors shall:

- have Grade 12;
- have a minimum of 7 years related working experience;
- be competent to complete Koeberg Plant Systems and Plant Safety Regulation courses;
- be computer literate and must be able to read and write English;

4.1.1.3 Execution Supervisor (Industrial Cleaning)

Execution Supervisors shall:

- have Grade 12;
- have a minimum of 5 years related working experience;
- be computer literate and must be able to read and write English;

4.1.1.4 Team Leader (Cleaning)

Team Leaders shall:

- have a minimum of 3 years related working experience;
- be able to read and write English;

4.1.1.5 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.

- The Compiler shall ensure that the final work package issued:
 - Clearly defines the reason for, and the scope of work to be performed.
 - 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.
 - Has been prepared at a level of appropriate detail to the complexity of the anticipated activities.
 - Provides documentation needed to complete the primary task and all anticipated contingencies in a safe and timely fashion where applicable.

4.1.1.6 Team leader/Supervisor (Rope Access)

A Team Leader (Rope Access) shall:

- be qualified to SAQA Level 3;
- have a minimum of 5 years working experience;

4.1.1.7 **Rope Access Practitioner**

Rope access technicians shall:

- be qualified to SAQA Level 2;
- have a minimum of 3 years working experience;

4.1.1.8 **Rope Access Technicians**

Rope access technicians shall:

- be qualified to SAQA Level 1;
- have a minimum of 2 years working experience;

4.1.1.9 **Safety Officer**

Safety Officers shall:

- have Grade 12;
- have a minimum of 3 years working experience;

4.1.2 **BBBEE and preferencing scheme**

The *Contractor* must be in possession of valid BBBEE status level of contribution.

The successful *Contractor* will be encouraged to maintain or improve the B-BBEE status level for the duration of the contract.

4.1.3 **Supplier Development Localisation and Industrialisation (SDL&I)**

Refer to the SDL&I Target Setting Report attached for specific SDL&I requirements that will be included as a Contractual obligation with the selector *Contractor*

4.2 **Plant, Consumables and Materials**

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

All material/consumables supplied in providing the Service shall comply with all applicable legislation, standards, and specifications. Material costs must allow for application losses. All chemicals used on site must be environmentally friendly i.e. biodegradable

ESTIMATED QUANTITIES OF TYPICAL CONSUMABLES/pm		
<i>The Contractor is obliged to supply all cleaning materials and products required. This will include but are not limited to the items below:</i>		
Description	Online Quantity	Outage Quantity
Black Bags	5000	8000
Scotch Brite	As required(used 6 monthly for cleaning of louvers)	
Rags	As required (can be used daily)	
Multi Strip (Heavy duty non-ammoniated floor stripper)	30 x 25L	60 x 25L
Multi Bac (Detergent disinfectant)	20 x 25L	40 x 25L
Brite Shine (Heavy duty non-slip floor polish)	30 x 25L	60 x 25L
Oilcap Hydrocarbon Encapsulator	10 x 25L (minimum stock level to be kept on site)	
Power Kleen	15 x 25L	45 x 25L
Handy Kleen	15 x 25L	45 x 25L

Note: Very small store on site, stock levels to be managed accordingly. These quantities are estimates based on a monthly average. The quantities given for outage covers both online and outage for that period. The Contractor is to obtain CRACK approval upfront for all chemical products to be brought on site. For chemicals to be stored, the Contractor is required to have a person responsible for the upkeep of the CRACK registers and ensuring that the Contractor adheres to the CRACK Program. The Employer is to be allowed to audit the Contractor's stores and registers. It is also the Contractor's responsibility to make sure its staff is made aware of the CRACK program

4.2.2 Tests and inspections before delivery

Only materials that comply with the Employer's specifications, including the CRACK (Chemical Restrictions And Control at Koeberg) process, shall be allowed on site.

The Contractor shall be required to provide the Employer with a list of materials brought on site, detailing receipt inspection dates, start-up and on hand quantities monthly.

The Employer will not tolerate any delays to the Service because of failure of the Contractor to have available sufficient materials to perform the Service, the use of any materials in infringement of the standards and specifications applicable, or failure of the Contractor to follow the procedures governing the entry and use of materials on site.

The Contractor ensures that all goods and services supplied in terms of this contract conform to all applicable environmental legislation and to the Employer's environmental specifications.

5 Working on the Affected Property

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

5.1.1 Security check points

Prior to access to site, there are two Public Exclusion Barrier (PEB) security check points, viz. at the entrance from the R27 and at the entrance from Duynfontein. Security access is through Access Control Points (ACP) 1 and 2. All temporary worker/visitors permits are issued at ACP-1.

On a daily routine all personnel will access and leave the site via the security controlled access point, where all are subjected to security screening procedures which includes 100% alcohol testing.

No cellular or mobile phones are allowed beyond ACP 2.

5.1.2 Fitness for duty management

The *Contractor* adheres to the *Employer's* procedure 335-68 - Fitness for Duty Requirements for Work to be performed inside the Owner Controlled Areas of Koeberg Nuclear Power Station.

The FFD programme objective is to provide reasonable assurance that all *employees* who are required to perform work on the Koeberg plant 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 Eskom) 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 Eskom requirements 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 Eskom unless it is stipulated otherwise in the SHE specifications of the contract.

Meeting FFD requirements is entirely the responsibility of the *Contractor* and all activities described in procedure 335-68 paragraph 5.1 are performed offsite at the cost of the *Contractor* before his/her employees will be registered on the FFD system.

After contract award the *Service Manager / Employer's Representative* completes an Occupational Health Services Person Job Specification in accordance with KGA- 075 and Procedure 335-68 for each contractor 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 A: 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. All contractors (local and international) must have a COVID -19 test result that is negative and not older than 72 hours before they come to the Affected Property for final medical assessment. International contractors must go into quarantine period as stated by the National Institute of Communicable Diseases guidelines from the date of arrival in South Africa. International contractors must perform a COVID 19 PCR test on day seven after arrival in SA. The *Contractor* is responsible for the cost of the COVID -19 test.

The *Contractor* ensures that all his *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 *Service Manager / 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

5.1.3 Specific Training Required

The duration of the training will vary according to the experience of the individual. The *Contractor* is to liaise with the *Employer's Representative*, prior to the execution of the works, for an appropriate training period.

Medical Assessments and Police Clearance are to be completed by the *Contractor* and proof supplied to the *Employer* for verification by the onsite Medical Centre and Security. Refer to Procedure 335-68 - Fitness for Duty Requirements for Work to be performed inside the Owner Controlled Areas of Koeberg Nuclear Power Station.

Generic training:

- Plant Induction Training (PIT)
- Human Performance Training
- Medical Verification
- Safety Induction

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. Training is executed via e-learning with self-study and an onsite online assessment of 2 hours.

Technical Training:

- Confined space training
- Diesel room entry
- Clean condition training
- Technical FME
- Arc Flash training
- Working at height/Material Handling
- Hazardous chemicals
- Technical Assessments as required
- Plant Safety Regulations (PSR)

The *Employer* from time to time requires that the *Contractor's* personnel attend the following compulsory training sessions:

- Monthly Work Team Sessions 2 Hours each. Attendance is compulsory for all personnel and is seen as continuation training.

After successful completion of the required training, each member of the *Contractor* team will be issued with a personal Identification Access Card. Lost or damaged cards will be for the cost of the *Contractor*. Hard hat, safety boots and safety glasses are mandatory safety equipment at Koeberg Nuclear Power Station. The *Contractor* is responsible to supply all his staff with this safety gear prior to the start of the work. Personal protective equipment must comply with SABS standards.

5.1.4 Exit procedure

The *Contractor* and the Service Manager ensure that permit holders that no longer require access to the Affected Property follow the FFD exit procedure. Failure to do so may result in the *Contractor's* employee being denied access in future.

The duration of the exit activity is approximately 90 minutes and includes an exit medical examination.

5.1.5 Prohibited/unauthorised items on site

In terms of the National Key Point Act 102 of 1980, Koeberg Operating Unit is a declared National Key Point (NKP). The National Key Point Act requires and empowers the owner of the National Key Point (Power Station Manager), to implement measures that will ensure the security of the National Key Point. The National Key Point area at the power station is the area within the protected area barrier (ACP 2 inwards).

One such security measure is procedure KAA-777 (Process for access to Koeberg Nuclear Power Station). The procedure stipulates that the following items are prohibited from being brought onto site, unless specifically authorised:

- explosives or components thereof,
- habit forming drugs,
- alcohol,
- mercury,
- acids,
- cellular phones,
- firearms, ammunition, or any part thereof, and
- cameras

Contractor personnel violating the procedure will be investigated and may result in action being instituted against such individuals and possible removal from site.

To keep the *Contractor* informed, pictograms of the items are placed at all ACP 2 access points, and it is also addressed in the Plant Access Training Course (PAT). It is the responsibility of each of the *Contractor's* employees to ensure compliance and to refrain from bringing prohibited/unauthorised items onto site

5.1.6 Emergency Mustering and Accountability and Evacuation

Due to the nature of the site the *Employer* is required to have full accountability of all personnel at all times.

The *Contractor* maintains a current status accountability list of all his personnel on site.

The accountability list is handed to the *Employer* each time a change occurs.

The *Contractor* ensures that his personnel take full responsibility of this requirement and that its personnel are fully knowledgeable with the mustering requirements as detailed in procedure KAA 611.

5.2 People restrictions, hours of work, conduct and records

Koeberg reserves the right to verify all personnel employed under this contract. Furthermore, Koeberg reserves the right to order that personnel that are not adequately qualified or suited for this contract are removed from the site.

The *Contractor* keeps records of his people working on the Affected Property and the *Service Manager* shall have access to them at any time.

During the execution of this Contract, other Contractors may be performing work on the plant and the *Contractor* must take due cognisance of this in planning and executing the *Service*

All work will be coordinated by the *Employer*. Working times can be subject to change, the *Employer* will inform The *Contractor* well in advance. Working hours may deviate from 'normal working hours', by mutual agreement

On-line

Monday – Thursday
07h30 – 16h35 (30min lunch break)
Friday
07h30 – 13h30 (no lunch break)
Last Friday in the month: 07h30 – 12:00

Outage

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

5.3 Health and safety facilities on the Affected Property

The *Employer* maintains a first aid and clinic facility which is available for treating minor medical problems. Contractors are permitted to make use of this facility at their own expense if they appear during prescribed consulting hours and are duly authorised by the *Contractor* supervisor. Emergency treatment is provided as needed. Casualty facilities are available at hospitals within a 25km radius.

5.4 Cooperating with and obtaining acceptance of Others

The *Contractor's* duty is to co-operate with Others as expressed under the service information. The *Contractor* co-operates with and does not delay, impede, or otherwise impair the work of Others

Where the *Contractor's* work may affect or interfere with the activities of the *Employer* or Others, it is important that interfaces in respect of physical location and timing are agreed by all parties and shown on the contractor's plan.

The exchange of information on health and safety matters is particularly important in order to comply with the law as well as with the contract.

The *Contractor* co-operates at any time with an independent person appointed by the *Employer* to review work done by the *Contractor* in Providing the Service.

The *Contractor* co-operates and provides information as required by the *Employer* for issues affecting and improving, either inside or outside the scope of the services.

The *Contractor* makes his own assessment of the problems and difficulties which may be encountered, and no claim of any kind will be allowed on account of providing reasonable access to other contractors as detailed above, or for the requirement of working adjacent to, or in the same area, as other contractors operations

5.5 Equipment provided by the Employer

The *Employer* is responsible for provision of training associated with enabling the *Contractor* to gain access to the site. All PPE requirements for Radiological Zones will be provided by the *Employer*. All work support functions (e.g. scaffold, rigging, **cherry pickers**, etc.) will be provided by the *Employer*.

For the purpose of expediting the works, the *Employer* may make available facilities or services to the *Contractor* at no cost to the *Contractor*. The *Contractor* does not receive any reimbursement or make any charge relative to the beneficial use of the *Employer's* facilities or services, these can include:

- MSA Multigas monitors
- Extraction fans and ducting
- Submersible pumps

5.6 Site services and facilities

5.6.1 Provided by the Employer

- Electricity - The *Employer* does not guarantee continuity of supply and no claims for standing time because of power failures will be considered.
- Water
- Canteen Services
- Ablution Facilities
- Waste disposal sites
- Work Packages and permits
- Small Office
- Small Store
- One Computer with LAN access

5.6.2 Provided by the *Contractor*

- The *Contractor* shall provide everything else necessary for Providing the Service.
- The *Contractor* dismantles and clears from site all such temporary structures and associated foundations and infrastructure at the direction of the Service Manager on completion. No such dismantling and clearance work is carried out without prior instruction from the Service Manager.
- The *Contractor* must ensure that the necessary vehicles are available on site to provide transportation of equipment, materials and staff

5.7 Control of noise, dust, water and waste

The *Contractor* will keep noise and dust levels to a minimum. At no time shall his/her work result in nuisance, interference, or danger to the public or any other person working at Koeberg.

At no time shall the *Contractor*:

- allow any palliative or toxic substance to be released into the air or storm water systems
- interfere with, or put at risk, the functionality of any system or service
- cause a fire or safety hazard

5.8 Tests and inspections

5.8.1 Description of tests and inspections

The *Contractor* shall ensure that all equipment is inspected and tested in accordance with relevant health and safety standards incorporated under the relevant Acts, Regulations and Standards.

6 List of drawings

6.1 Drawings issued by the *Employer*

This is the list of drawings issued by the *Employer* at or before the Contract Date and which apply to this contract.

Drawing number	Revision	Title

7 Appendices

- 7.1 Annexure 1 - Requirements for Key Personnel
- 7.2 Annexure 2 - Typical non-Outage work scope
- 7.3 Annexure 3 - Typical Outage work scope
- 7.4 Annexure 4 - Stormwater Drawings
- 7.5 Annexure 5 – SHE Specification

ANNEXURE 1

Requirements for Key Personnel

1.0 JOB DESCRIPTIONS & REQUIREMENTS

1.1 Site Manager

Site Manager shall:

- a) have a minimum of 5 years' experience in the industrial cleaning 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) 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

1.2 Supervisor (Industrial Cleaning)

Supervisors shall:

- a) have Grade 12;
- b) have a minimum of 7 years related working experience;
- c) be competent to complete Koeberg Plant Systems and Plant Safety Regulation courses;
- d) ensure sufficient quality control and assurance;
- e) be computer literate and must be able to read and write English;
- f) be able to interface with engineers/technicians/managers with regard to cleaning concerns;
- g) study daily work plan, identify priorities and allocate work;
- h) issue work instructions, monitor progress and report progress to Senior Supervisor;
- i) check quality of work performed. Identify and address non-quality activities;
- j) do job observations, identify and attend to non-adherence to work procedures;
- k) check workshop cleanliness;

- l) check that equipment history records are correctly completed;
- m) hold sub section meetings;
- n) assist staff with problems and Identify training needs;
- o) ensure that staff authorisations do not lapse;
- p) arrange and hold safety talks with staff;
- q) conduct inspections of all tools, protective clothing and equipment of staff;
- r) attend and participate in statutory monthly safety meetings;
- s) do job and critical task observations. And complete all related documentation;
- t) check that information in Work Packages and Notifications are correct;
- u) allocate defects to Execution Supervisor and verify that work is completed;
- v) check that maintenance programme is executed.

1.3 Execution Supervisor (Industrial Cleaning)

Execution Supervisors shall:

- a) have Grade 12;
- 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;
- n) allocate defects to Team Leaders and verify that work is completed.

1.4 Team Leader (Cleaning)

Team Leaders shall:

- a) have a minimum of 3 years related working experience;
- b) be able to read and write English;
- c) perform plant walk-downs of work packages;
- d) Be responsible for the co-ordination of the work on site;
- e) monitor work progress and report progress to Supervisor;

- f) ensure tools and equipment are maintained in a serviceable and clean condition;
- g) sign on/off the LAR;
- h) perform pre-job briefs;
- i) complete equipment history records.

1.5 Semi-skilled Cleaners

shall:

- a) have a minimum of 2 years related working experience;
- b) be able to read and write English;
- c) remove and properly dispose of liquid and solid material and material build-up from tanks, vessels, pumps, valves, etc.
- d) operate powered tools such as power-washers, heavy duty vacuum cleaners, high pressure machines, steam cleaners etc.
- e) use various manual tools such as scrapers, shovels, squeegees, brooms, wheel barrows etc.
- f) perform housekeeping and safety related tasks (i.e. pre/post maintenance cleaning, preventative cleaning);
- g) clean building floors by sweeping, mopping, scrubbing, or vacuuming;
- h) clean oil spills and water leaks;
- i) empty and clean sumps;
- j) clean SEU sludge drying beds;
- k) Clean CFI trash baskets;
- l) follow procedures for the use of chemical cleaners and power equipment to prevent damage to floors and equipment.

1.6 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) 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.
- b) The Compiler shall perform a physical walk down of the job site (if accessible).
- c) 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..
- d) The Compiler shall consult with the relevant departments in order to establish at what unit state the work could be carried out at.
- e) The Compiler is to determine whether contingency operations are required.

- f) The Compiler shall determine the level of work package to be compiled.
- g) 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.
- h) The Compiler shall take into consideration for activities that are performed over a period of time that separate operations are raised in order to flag the history capturing, pre-job briefings, risk assessment, etc.

1.7 Rope Access Supervisor

A Rope Access Supervisor shall:

- a) be qualified to SAQA Level 3;
- b) have a minimum of 5 years working experience;
- c) provide on-site management and co-ordination of access work and ensuring that tasks are completed;
- d) act as the official on-site representative of the company in matters concerning safety;
- e) ensure that all access equipment at the worksite is fit for purpose and safe to use;
- f) prepare and submit a rope access operation plan;
- g) apply for a work permit where required;
- h) ensure that routine safety checks are performed before commencing any rope access activity.
- i) Training certified by the International Rope Access Trade Association (IRATA) or the Institute for Work at Height (IWH) will be accepted

1.8 Rope Access Practitioner

Rope access technicians shall:

- a) be qualified to SAQA Level 2;
- b) have a minimum of 3 years working experience;
- c) Training certified by the International Rope Access Trade Association (IRATA) or the Institute for Work at Height (IWH) will be accepted

1.9 Rope Access Technicians

Rope access technicians shall:

- a) be qualified to SAQA Level 1;
- b) have a minimum of 2 years working experience;
- c) Training certified by the International Rope Access Trade Association (IRATA) or the Institute for Work at Height (IWH) will be accepted

1.10 Safety Officer

Safety Officers shall:

- a) have Grade 12;
- b) have a minimum of 3 years working experience;
- c) provide advice, information and instruction on local OH&S issues;

- d) assist in the application of OH&S procedures;
- e) help manage risks and hazards in their area;
- f) record and investigate incidents, injuries and hazards and implement agreed control measures;
- g) liaise with the on-site OH&S Department and other safety personnel;
- h) develop injury and incident prevention strategies for their area;
- i) audit compliance with regard to risk, emergency and hazardous waste management;
- j) help promote OH&S awareness;
- k) manage company H&S systems;
- l) have successfully completed Risk Assessment training;
- m) have a sound working knowledge of safety, health, and environmental affairs principles and regulatory requirements.

1.11 Admin Clerk

An Admin Clerk shall:

- a) have 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 contract manager regarding issues and concerns related to administrate all payroll activities and issues that may arise;
- f) be able to administer the *Employers* fitness for duty database.
- g) 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.

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
Station Transformer Yard	Yard	Sw eep, pick up all rubbish, rubble & discard	1 x monthly
Spare Transformer	Floors	Sw eep, pick up all rubbish, rubble, discards & mop	1 x monthly
Chemistry Building - Fan room	Fan casing	Vacuum and damp clean	1 x monthly
	Louvres	Vacuum and damp clean	1 x monthly
	Floors	Sw eep, pick up all rubbish, rubble, discards & mop	1 x monthly
Chemistry Building - Cold Lab	Benches	Wipe and damp clean	
	Floors	Sw eep, pick up all rubbish, rubble & discards	
	Floors	Scrub, polish & buff	1 x 2 monthly
Shy plant	Motors	Wipe and damp clean	1 x monthly
	Compressor	Wipe and damp clean	1 x monthly
	Valves	Wipe and damp clean	1 x monthly
	Electrolyser	Remove all deposits, w ipe & damp clean	1 x monthly
	Floors	Sw eep & mop	daily
	Gauges	Wipe and damp clean	1 x monthly
SEU Plant	Motors	Wipe and damp clean	1 x monthly
	Pumps	Wipe and damp clean	1 x monthly
	Walls	Water w ash	1 x monthly
	Valves	Wipe and damp clean	1 x monthly
	Gauges	Wipe and damp clean	1 x monthly
	Piping	Wipe and damp clean	1 x monthly
	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	daily

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
MSB Workshops, Unit 1	Floors	Scrub, polish & buff	1 x 2 monthly
	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
	Walls & Doors	Dust and damp clean	1 x monthly
	Roller Door	Water w ash	1 x monthly
Unit 2	Floors	Scrub, polish & buff	1 x 2 monthly
	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
	Walls & Doors	Dust and damp clean	1 x monthly
Unit 9	Floors	Scrub, polish & buff	1 x 2 monthly
	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
	Walls & Doors	Dust and damp clean	1 x monthly
Basement	Floors	Scrub, polish & buff	1 x 2 monthly
	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
MM6 Fan room	Fan casing	Vacuum and damp clean	1 x monthly
	Louvres	Vacuum and damp clean	1 x monthly
	Floors	Scrub, polish & buff	1 x 2 monthly
	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
Cranes	Cranes	Vacuum and damp clean	1 x 2 monthly
Valve section	Floors	Scrub, polish & buff	1 x 2 monthly
	Walls	Dust and damp clean	1 x monthly
	Valves	Wipe and damp clean	1 x monthly
Site Stores	Floors	Scrub, polish & buff	1 x monthly
	Walls	Dust and damp clean	1 x monthly
	Shelves	Vacuum clean, pick up all rubbish, rubble & discards	1 x 2 monthly
	Roller Door	Water w ash	1 x monthly
Demin Plant	Floors	Sw eep, pick up all rubbish, rubble, discard & mop	2 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Tanks (external)	Wipe and damp clean	1 x weekly
	Tanks (internal)	Clean internal surface/Remove resin/Remove sludge	As required
	Valves	Wipe and damp clean	1 x weekly
	Motors	Wipe and damp clean	1 x weekly
	Grated floors	Water w ash	2 x weekly
	Sumps	Pick up all rubbish, rubble, discards & vacuum clean	1 x monthly
	Pit (drain)	Pick up all rubbish, rubble, discards & vacuum clean	1 x monthly
	Walls	Dust and damp clean	1x monthly
	Roller Door	Water w ash	1 x monthly
	Ppings	Wipe and damp clean	1 x monthly
	Gauges	Wipe and damp clean	1 x monthly
	Electric panel boards	Vacuum and damp clean	1 x monthly
	Office floor	Sw eep, pick up all rubbish, rubble, discards & mop	2 x weekly

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
Boiler house	Valves	Wipe and damp clean	1 x weekly
	Motors	Wipe and damp clean	1 x weekly
	Floors	Sw eep, pick up all rubbish, rubble, discards	daily
	Floors	Scrub, polish & buff	1 x monthly
	Boilers x 3 (external)	Water w ash, apply cleaning agent, w ater w ash again, polish	1 x monthly
	Roller door	Water w ash	1 x monthly
	Drip trays	Wipe and damp clean	1 x weekly
	Electric panel boards	Vacuum and damp clean	1 x weekly
	Gauges	Wipe and damp clean	1 x weekly
	Fan casing	Wipe and damp clean	1 x weekly
Gallery - Boiler house	Floors	Sw eep, pick up all rubbish, rubble, discards & scrub	1 x monthly
	Piping	Sw eep, pick up all rubbish, rubble & discards	1 x monthly
Gallery - Behind NAB Train A & B (x4)	Floors	Sw eep, pick up all rubbish, rubble, discards & scrub	1 x monthly
CTE Plant	Tanks (internal)	Clean internal surface	1 x 6 monthly
	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	daily
	Floors	Scrub, polish & buff	1 x monthly
	Pumps	Wipe and damp clean	1 x weekly
	Motors	Wipe and damp clean	1 x weekly
	Walls	Wipe and damp clean	1 x weekly
	Valves	Wipe and damp clean	1 x weekly
	Diffusers	Hydrolase chlorine diff users	1 x 3 monthly
CRF Pump House – Level 1 (0m)	6 x Motors	Vacuum clean (if available)	As required
	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	daily
	Floors	Scrub, polish & buff	1 x monthly
	Stairs	Sw eep, pick up all rubbish, rubble & discards	daily
	Railings	Wipe and damp clean	daily
	Doors	Dust and damp clean	1 x weekly
	Electric panel boards	Vacuum	1 x weekly

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
SEC Plant – Unit 1A – Level 2 (-3.4m)	Fan Casing (x4)	Vacuum and damp clean	1 x weekly
	Fan louvres	Vacuum and damp clean	1 x weekly
	Fan Motors	Vacuum and dust	1 x weekly
	Circuit boards	Vacuum and dust	1 x weekly
	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	daily
	Floors	Scrub, polish & buff	1 x monthly
SEC Plant – Unit 1A – Level 3 (-9m)	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	daily
	Floors	Scrub, polish & buff	1 x monthly
	Motors	Vacuum and dust	1 x weekly
SEC Plant – Unit 1A – Level 4 (-12m)	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	daily
	Floors	Scrub, polish & buff	1 x monthly
	Pumps	Wipe and damp clean	1 x weekly
	Motors	Vacuum clean	1 x weekly
SEC Plant – Unit 2A – Level 1 (0m)	Stairs	Sw eep, pick up all rubbish, rubble & discards	daily
	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	daily
	Floors	Scrub, polish & buff	1 x monthly
	Walls	Wipe and damp clean	1 x weekly
	Pumps	Wipe and damp clean	1 x weekly
	Valves	Wipe and damp clean	1 x weekly
SEC Plant – Unit 2A – Level 2 (-3.4m)	Fan Casing (x4)	Vacuum and damp clean	1 x weekly
	Fan louvres	Vacuum and damp clean	1 x weekly
	Fan Motors	Vacuum and dust	1 x weekly
	Circuit boards	Vacuum and dust	1 x weekly
	Floors	Sw eep, pick up all rubbish, rubble & discards	daily
	Floors	Scrub, polish & buff	1 x monthly

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
Batching Plant (concrete & cement plant)	Walls	Vacuum and dust	1 x 3 monthly
	Mixer	Wipe and damp clean	1 x 3 monthly
	Beams	Vacuum and dust	1 x 3 monthly
MWS Workshops – Rigging	Floors	Sw eep, pick up all rubbish, rubble, discard, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x 2 monthly
	Cranes	Vacuum and dust	1 x 2 monthly
MWS Workshops – Rotek	Floors	Sw eep, pick up all rubbish, rubble, discard, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x 2 monthly
MWS Workshops – E&S Store	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x 2 monthly
MWS Workshops – Civil	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x 2 monthly
MWS Workshops - Welding	Floors	Sw eep, pick up all rubbish, rubble, discard, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x 2 monthly
MWS Workshops - Minor Maintenance	Floors	Sw eep, pick up all rubbish, rubble, discard, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x 2 monthly
9LHS Diesel	Floors	Sw eep, pick up all rubbish, rubble, discards, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Roof	Vacuum and dust	1 x weekly
	Walls & Catladders	Wipe and damp clean	1 x weekly
	Engine Level	Clean engine and other components	1 x weekly
	Silence lever	Clean silencer, oil tank, diesel and w ater tank	1 x weekly
	9LHS004BA	Remove diesel fuel	1 x 2 weekly
	Louvres	Wipe clean, apply cleaning agent & polish (rustek)	1 x 6 months

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
1LHQ Diesel	Floors	Sw eep, pick up all rubbish, rubble, discards, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Roof	Vacuum and dust	1 x weekly
	Walls & Catladders	Wipe and damp clean	1 x weekly
	Engine Level	Clean engine and other components	1 x weekly
	Silence lever	Clean silencer, oil tank, diesel and w ater tank	1 x weekly
	1LHQ004BA	Remove diesel fuel	1 x 2 weekly
	Louvres	Wipe clean, apply cleaning agent & polish (rustek)	1 x 6 months
2LHQ Diesel	Floors	Sw eep, pick up all rubbish, rubble, discards, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Roof	Vacuum and dust	1 x weekly
	Walls & Catladders	Wipe and damp clean	1 x weekly
	Engine Level	Clean engine and other components	1 x weekly
	Silence lever	Clean silencer, oil tank, diesel and w ater tank	1 x weekly
	2LHQ004BA	Remove diesel fuel	1 x 2 weekly
	Louvres	Wipe clean, apply cleaning agent & polish (rustek)	1 x 6 months
1LHP Diesel	Floors	Sw eep, pick up all rubbish, rubble, discards, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Roof	Vacuum and dust	1 x weekly
	Walls & Catladders	Wipe and damp clean	1 x weekly
	Engine Level	Clean engine and other components	1 x weekly
	Silence lever	Clean silencer, oil tank, diesel and w ater tank	1 x weekly
	1LHP004BA	Remove diesel fuel	1 x 2 weekly
	Louvres	Wipe clean, apply cleaning agent & polish (rustek)	1 x 6 months
2LHP Diesel	Floors	Sw eep, pick up all rubbish, rubble, discards, mop	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Roof	Vacuum and dust	1 x weekly
	Walls & Catladders	Wipe and damp clean	1 x weekly
	Engine Level	Clean engine and other components	1 x weekly
	Silence lever	Clean silencer, oil tank, diesel and w ater tank	1 x weekly
	2LHP004BA	Remove diesel fuel	1 x 2 weekly
	Louvres	Wipe clean, apply cleaning agent & polish (rustek)	1 x 6 months

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
Turbine Hall – Unit 1 – Level 1 (9.5m)	Tanks (external)	Wipe and damp clean	1 x 2 weekly
	Accessible Piping	Wipe and damp clean	1 x weekly
	Cranes	Vacuum and dust	1 x 2 monthly
	Turbine Cladding	Wipe and damp clean	1 x monthly
	Electric panel boards	Vacuum and dust	1 x weekly
	Phone boothes	Vacuum and dust	1 x weekly
	Valves	Wipe and damp clean	1 x monthly
	Stairs	Sw eep, pick up all rubbish, rubble & discard, mop	daily
	Railing	Wipe and damp clean	daily
	Floors	Sw eep, pick up all rubbish, rubble & discards	daily
	Floors	Scrub, polish & buff	1 x monthly
	Gauges	Wipe and damp clean	1 x weekly
	Walls	Wipe and damp clean	1 x monthly
	Doors	Wipe and damp clean	1 x weekly
	Lift Door	Wipe and damp clean	1 x weekly
	Fan Casing	Wipe and damp clean	1 x weekly
	Fan louvres	Wipe and damp clean	1 x weekly
	Fan Motors	Vacuum clean	1 x weekly
Turbine Hall – Unit 1 – Level 2 (0m)	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	daily
	Floors (loading bay)	Sw eep, pick up all rubbish, rubble, discards & scrub	daily
	Floors	Scrub, polish & buff	1 x monthly
	Gauges	Wipe and damp clean	1 x weekly
	Walls	Wipe and damp clean	1 x monthly
	Doors	Wipe and damp clean	1 x weekly
	Lift Door	Wipe and damp clean	1 x weekly
	Valves	Wipe and damp clean	1 x monthly
	Pumps	Wipe and damp clean	1 x weekly
	Motors	Vacuum clean	1 x weekly
	Walkw ays	Vacuum	daily
	GGR Room	Clean	daily
	Stairs (9.5 - - 12)	Vacuum	daily
	Railing (9.5 - - 12)	Wipe and damp clean	daily
	Tanks	Wipe and damp clean	1 x monthly
	Pipe Cladding	Vacuum, w ipe and damp clean	1 x weekly

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
Turbine Hall – Unit 2 – Level 3 (-6m)	Floors	Sweep, pick up all rubbish, rubble & discard, mop	daily
	Floors	Scrub, polish & buff	1 x monthly
	Gauges	Wipe and damp clean	1 x weekly
	Walls	wipe and damp clean	1 x monthly
	Doors	Wipe and damp clean	1 x weekly
	Lift Door	wipe and damp clean	1 x weekly
	Valves	Wipe and damp clean	1 x monthly
	Pumps	Wipe and damp clean	1 x weekly
	Walkways	Vacuum	daily
	GFR oil bays	Wipe and damp clean	1 x weekly
	X2 AGR oil bays	Wipe and damp clean	1 x weekly
	Cranes (top of APP)	Vacuum and dust	1 x monthly
	Pipe Cladding	Wipe and damp clean	1 x weekly
	Tanks	Wipe and damp clean	1 x monthly
	Concrete Columns	wipe and dust	1 x monthly
	Waterboxes (external)	Wipe and damp clean	1 x weekly
	Storage bays	Wipe and damp clean	1 x weekly
	Motors	Vacuum and dust	1 x weekly
	ACO Pts	Sweep, pick up all rubbish, rubble & discards	1 x weekly
Turbine Hall – Unit 2 – Level 4 (-12m)	Floors	Sweep, pick up all rubbish, rubble & discard, mop	daily
	Floors	Scrub, polish & buff	1 x monthly
	Gauges	Wipe and damp clean	1 x weekly
	Walls	Wipe and damp clean	1 x monthly
	Doors	Wipe and damp clean	1 x weekly
	Lift Door	Wipe and damp clean	1 x weekly
	Valves	Wipe and damp clean	1 x monthly
	Pumps	Wipe and damp clean	1 x weekly
	Walkways	Vacuum and dust	daily
	Pipe Cladding	Wipe and damp clean	1 x weekly
	Tanks	Wipe and damp clean	1 x monthly
	Concrete Columns	wipe and dust	1 x monthly
	Motors	Vacuum and dust	1 x weekly
Turbine Hall – Unit 2 – RRI Rooms	Floors	Sweep, pick up all rubbish, rubble & discard, mop	daily
	Floors	Scrub, polish & buff	1 x monthly
	Gauges	Wipe and damp clean	1 x weekly
	Walls	Wipe and damp clean	1 x monthly
	Doors	Wipe and damp clean	1 x weekly
	Valves	Wipe and damp clean	1 x weekly
	Pumps	Wipe and damp clean	1 x weekly
	Pipe Cladding	Wipe and damp clean	1 x weekly
	Motors	Wipe and damp clean	1 x weekly

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
Electrical Building - Unit 1 - Level 1 (24m)	Fan casing	Wipe and damp clean	1 x monthly
	Fan blades	Wipe and damp clean	1 x monthly
	Floor	Sw eep & Mop	2 x w eekly
	Grounds	Sw eep, pick up all rubbish, rubble & discards	1 x w eekly
Electrical Building - Unit 1 - Level 1 (15.5m)	Floors	Sw eep, pick up all rubbish, rubble & discard, mop	1 x w eekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x w eekly
Electrical Building - Unit 1 - Level 2 (11.5m)	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x w eekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x w eekly
Electrical Building - Unit 1 - Level 3 (7m)	Floors	Sw eep, pick up all rubbish, rubble & discards	daily
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x w eekly
Electrical Building - Unit 1 - Level 4 (3.8m)	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x w eekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x w eekly
Electrical Building - Unit 2 - Level 5 (0m)	Floors	Sw eep, pick up all rubbish, rubble & discards	daily
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x w eekly
Electrical Building - Unit 1 - Level 6 (-3.4m)	Floors	Sw eep, pick up all rubbish, rubble & discards	daily
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x w eekly
Electrical Building - Unit 1 - Level 7 (-6.7m)	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x w eekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x w eekly

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
Electrical Building - Unit 2 - Level 1 (24m)	Fan casing	Wipe and damp clean	1 x monthly
	Fan blades	Wipe and damp clean	1 x monthly
	Floor	Sw eep & Mop	2 x weekly
	Grounds	Sw eep, pick up all rubbish, rubble & discard	1 x weekly
Electrical Building - Unit 2 - Level 1 (15.5m)	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x weekly
Electrical Building - Unit 2 - Level 2 (11.5m)	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x weekly
Electrical Building - Unit 2 - Level 3 (7m)	Floors	Sw eep, pick up all rubbish, rubble & discards	daily
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x weekly
Electrical Building - Unit 2 - Level 4 (3.8m)	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x weekly
Electrical Building - Unit 2 - Level 5 (0m)	Floors	Sw eep, pick up all rubbish, rubble & discards	daily
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x weekly
Electrical Building - Unit 2 - Level 6 (-3.4m)	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x weekly
Electrical Building - Unit 2 - Level 7 (-6.7m)	Floors	Sw eep, pick up all rubbish, rubble & discards	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x weekly
Unit 1 ASG Room	Floor	Sw eep, pick up all rubbish, rubble & discards	daily
	Floor	Scrub, polish & buff	1 x monthly
	Valves	Wipe and damp clean	1 x weekly
	Pumps	Wipe and damp clean	1 x weekly
	Motors	Wipe and damp clean	1 x weekly
	Panel boxes	Wipe	1 x weekly
	Walls	Wipe and damp clean	1 x monthly
Electrical Building - Unit 9 - Level 5 (0m)	Floors	Sw eep, pick up all rubbish, rubble & discards	daily
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x weekly

Area/Work scope/Frequency

Area/Work scope/Frequency

Area Description / Location	Equipment	Cleaning Methods	Frequency
Electrical Building - Unit 9 - Level 7 (-6.7m)	Floors	Sweep, pick up all rubbish, rubble & discards	1 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Panel boxes	Wipe	1 x weekly
SEC Outfall channel	Channel	Pick up all debris and dirt	1 x 2 monthly
Chemical store (opposite MMLUBE)	Floor & ground around	Pick up all debris and dirt	daily
All waste bins	All	Collect & clean	daily
All roads	Roads	Pick up all debris and dirt	daily
South Side of plant - All grass and bush areas	All areas	Pick up all debris and dirt	daily
North Side of plant - All grass and bush areas	All areas	Pick up all debris and dirt	daily
West Side of plant - All grass and bush areas	All areas	Pick up all debris and dirt	daily
East Side of plant - All grass and bush areas	All areas	Pick up all debris and dirt	daily
Polishing Plants	Floors	Sweep, pick up all rubbish, rubble & discards	2 x weekly
	Floors	Sweep, pick up all rubbish, rubble, discards & mop	2 x weekly
	Floors	Scrub, polish & buff	1 x monthly
	Tanks (external)	Wipe and damp clean	1 x weekly
	Tanks (internal)	Clean internal surface/ Remove resin	As required
	Valves	Wipe and damp clean	1 x weekly
	Grated floors	Water wash	2 x weekly
	Sumps	Pick up all rubbish, rubble, discards & vacuum clean	1 x monthly
	Pit (drain)	Pick up all rubbish, rubble, discards & vacuum clean	1 x monthly
	Walls	Dust and damp clean	1x monthly
	Roller Door	Water wash	1 x monthly
	Pipings	Wipe and damp clean	1 x monthly
	Gauges	Wipe and damp clean	1 x monthly
	Electric panel boards	Vacuum and damp clean	1 x monthly
	OPS locker area	Sweep, pick up all rubbish, rubble, discard & mop	2 x weekly
Stormwater Lines	Around nuclear island	Clean stormwater lines	1 x Yearly

ANNEXURE 3

Typical Outage work scope

TYPICAL OUTAGE WORKSCOPE (EXCLUDING DEFECTS)		
FUNCTIONAL LOC.	DESCRIPTION OF FUNCTIONAL LOCATION	DESCRIPTION OF WORK
ABP101RE	HEATER LOW PRESS F/WTR LP1 EXHAUST LINE1	CLEAN INTERNAL SURFACE OF VESSEL
ABP102RE	HEATER LOW PRESS F/WTR LP1 EXHAUST LINE2	CLEAN INTERNAL SURFACE OF VESSEL
ABP104RE	HEATER LOW PRESS F/WTR LP2 EXHAUST LINE2	CLEAN INTERNAL SURFACE OF VESSEL
ABP105RE	HEATER LOW PRESS F/WTR LP3 EXHAUST LINE1	CLEAN INTERNAL SURFACE OF VESSEL
ABP106RE	HEATER LOW PRESS F/WTR LP3 EXHAUST LINE2	CLEAN INTERNAL SURFACE OF VESSEL
ABP201RP	DRAINS COOLER - LINE 1	CLEAN THE INTERNAL SURFACE OF THE VESSEL
ABP202RP	DRAINS COOLER - LINE 2	CLEAN THE INTERNAL SURFACE OF THE VESSEL
ABP401RE	HEATER LOW PRESS F/WTR R4 LINE 1	STEAM CLEANING AFTER ARC SPRAYING
ABP401RE	HEATER LOW PRESS F/WTR R4 LINE 1	STEAM CLEANING AFTER ARC SPRAYING
ABP401RE	HEATER LOW PRESS F/WTR R4 LINE 1	FLUSH VESSEL AFTER ARC SPRAYING
ABP402RE	HEATER LOW PRESS F/WTR R4 LINE 2	STEAM CLEANING AFTER ARC SPRAYING
ABP402RE	HEATER LOW PRESS F/WTR R4 LINE 2	FLUSH VESSEL AFTER ARC SPRAYING
ABP402RE	HEATER LOW PRESS F/WTR R4 LINE 2	CLEAN VESSEL AFTER ARC SPRAYING
ACO001BA	TANK - DRAINS RECOVERY	2RO CLEAN FLOOR AREA ON COMPLETION OF THE WORK
AHP003BA	TANK EMERGENCY DRAINS FLASH	CLEAN TANK ON COMPLETION OF ALL WORK
ASG001BA	TANK AUXILLARY FEEDWATER STORAGE	ASSIST WITH CLEANING ACTIVITIES
ASG001ZE	SEPARATOR MOISTURE STEAM SUPPLY TO 001TC	1RO CLEAN SEPARATOR TANK FLOOR AREA
CET001CS	CONDENSER GLAND STEAM	3RO CLEAN COMPONENT
CET001CS	CONDENSER GLAND STEAM	CONT: FLUSH VESSEL AFTER WELDING
CEX001CS	CONDENSER MAIN TURBINE GENERATOR	1RO CLEAN FOR VISUAL INSPECTION
CFI001TF	DRUM FILTER CW INLET TO CRF001PO	1RO HIGH PRESSURE CLEAN ALL ANODES INSIDE DRUMSCREEN
CFI001TF	DRUM FILTER CW INLET TO CRF001PO	1RO CLEAN WORKING AREA INSIDE CRF PUMPHOUSE
CFI001TF	DRUM FILTER CW INLET TO CRF001PO	1RO CLEAN DRUM/RAKE SCREEN PIT
CFI002TF	DRUM FILTER CW INLET TO CRF02PO	1RO CLEAN WORKING AREA INSIDE CRF PUMPHOUSE
CFI002TF	DRUM FILTER CW INLET TO CRF02PO	1RO HIGH PRESSURE CLEAN ALL ANODES INSIDE DRUMSCREEN
CFI002TF	DRUM FILTER CW INLET TO CRF02PO	1RO CLEAN DRUM/RAKE SCREEN PIT
CFI003TF	DRUM FILTER CW INLET TO CRF03PO	1RO CLEAN WORKING AREA INSIDE CRF PUMPHOUSE
CFI003TF	DRUM FILTER CW INLET TO CRF03PO	1RO HIGH PRESSURE CLEAN ALL ANODES INSIDE DRUMSCREEN
CFI003TF	DRUM FILTER CW INLET TO CRF03PO	1RO CLEAN DRUM/RAKE SCREEN PIT
CRF	MAIN SEA WATER CLG SYS(ESS WATER:SEC)	1RO CLEAN INSIDE BONA PIPES ON COMPLETION (INLET SIDE)
CRF	MAIN SEA WATER CLG SYS(ESS WATER:SEC)	1RO CLEAN INSIDE BONA PIPES ON COMPLETION (OUTLET SIDE)
CRF	MAIN SEA WATER CLG SYS(ESS WATER:SEC)	1RO WASH OUT BONNA PIPES (INLET SIDE)

TYPICAL OUTAGE WORKSCOPE (EXCLUDING DEFECTS)		
FUNCTIONAL LOC.	DESCRIPTION OF FUNCTIONAL LOCATION	DESCRIPTION OF WORK
CRF	MAIN SEA WATER CLG SYS(ESS WATER:SEC)	1RO WASH OUT BONNA PIPES (OUTLET SIDE)
CRF001JD	EXPANSION JOINT DISCH SIDE 001 PO	1RO CLEAN BONNA PIPE BELLOWS FOR INSPECTION
CRF001WX	WATER BOX NO 1	1RO CLEAN FOR VISUAL INSPECTION BY TIV
CRF002CS	CONDENSER WATER BOX	1RO CLEAN COMPONENT
CRF002JD	EXPANSION JOINT DISCHARGE SIDE 002PO	1RO CLEAN BONNA PIPE BELLOWS FOR INSPECTION
CRF002WX	WATER BOX NO 2	1RO CLEAN FOR VISUAL INSPECTION BY TIV
CRF002WX	WATER BOX NO 2	1RO CLEAN FOR VISUAL INSPECTION BY TIV
CRF003CS	CONDENSER WATER BOX	1RO CLEAN COMPONENT
CRF003JD	EXPANSION JOINT FROM 003PO TO CONDENSERS	1RO CLEAN BONNA PIPE BELLOWS FOR INSPECTION
CRF003WX	WATER BOX NO 3	1RO CLEAN FOR VISUAL INSPECTION BY TIV
CRF004BA	TANK STUFFING BOX WATER SUPPLY	3RO CLEAN COMPONENT
CRF004CS	CONDENSER WATER BOX	1RO CLEAN COMPONENT
CRF004JD	EXPANSION JOINT TO 2/4/6 WATER BOXES	1RO CLEAN BONNA PIPE BELLOWS FOR INSPECTION
CRF004WX	WATER BOX NO 4	1RO CLEAN FOR VISUAL INSPECTION BY TIV
CRF005CS	CONDENSER WATER BOX	1RO CLEAN COMPONENT
CRF005JD	EXPANSION JOINT FROM 003PO TO CONDENSERS	1RO CLEAN BONNA PIPE BELLOWS FOR INSPECTION
CRF005WX	WATER BOX NO 5	1RO CLEAN FOR VISUAL INSPECTION BY TIV
CRF006CS	CONDENSER WATER BOX	1RO CLEAN COMPONENT
CRF006JD	EXPANSION JOINT CONDENSER 2 TO OUTFALL	1RO CLEAN BONNA PIPE BELLOWS FOR INSPECTION
CRF006WX	WATER BOX NO 6	1RO CLEAN FOR VISUAL INSPECTION BY TIV
CRF007JD	EXPANSION JOINT FROM CONDENSERS 1/3/5	1RO CLEAN BONNA PIPE BELLOWS FOR INSPECTION
CSI001VC	VALVE - DISCHARGE ISOLATION 1CRF001PO	1RO CLEAN COMPONENT
CSI002VC	VALVE - DISCHARGE ISOLATION 1CRF002PO	1RO CLEAN COMPONENT
CSI003VC	VALVE- DISCHARGE ISOLATION 1CRF003PO	1RO CLEAN COMPONENT
CSI004VC	VALVE MO INTCONTN 1CRF002/001PO DSCH LN	1RO CLEAN COMPONENT
CSI005VC	VALVE MO INTCONTN 1CRF 002/003PO DSCH LN	1RO CLEAN COMPONENT
CSI301BA	TANK 003VC OIL RESERVOIR	CLEAN FLOOR AREA ON COMPLETION OF MMS WORK
DMM	CRANE	CLEAN CRANE 9DMM001PR
DMM	CRANE	CLEAN PENDANT CRANE
GCT002BA	TANK AIR FOR VALVES 116VV AND 117VV	2RO CLEAN FLOOR AREA ON COMPLETION OF THE WORK
GCT003BA	TANK AIR FOR VALVES 123VV AND 122VV	2RO CLEAN FLOOR AREA ON COMPLETION OF THE WORK
GCT004BA	TANK AIR FOR VALVES 121VV AND 120VV	2RO CLEAN FLOOR AREA ON COMPLETION OF THE WORK
GCT005BA	TANK AIR FOR VALVE 113VV AND 112VV	2RO CLEAN FLOOR AREA ON COMPLETION OF THE WORK

TYPICAL OUTAGE WORKSCOPE (EXCLUDING DEFECTS)		
FUNCTIONAL LOC.	DESCRIPTION OF FUNCTIONAL LOCATION	DESCRIPTION OF WORK
GCT006BA	TANK AIR FOR VALVE 115VV AND 114VV	2RO CLEAN FLOOR AREA ON COMPLETION OF THE WORK
GCT007BA	TANK AIR FOR VALVE 119VV AND 118VV	2RO CLEAN FLOOR AREA ON COMPLETION OF THE WORK
GCT008BA	TANK AIR FOR VALVE 11VV AND 110VV	2RO CLEAN FLOOR AREA ON COMPLETION OF THE WORK
GEV	POWER EVACUATION SYSTEM	CLEAN TRANSFORMERS
GEV001TP	GENERATOR TRANSFORMER RED PHASE	2RO RADIATOR CLEANING
GEV001TS	UNIT TRANSFORMER 24/6.6KV	2RO CLEAN TRENCHES/DUCTING AFTER INSPECTION
GEV001TS	UNIT TRANSFORMER 24/6.6KV	2RO RADIATOR CLEANING
GEV002TP	GENERATOR TRANSFORMER WHITE PHASE	2RO RADIATOR CLEANING
GEV003TP	GENERATOR TRANSFORMER BLUE PHASE	2RO RADIATOR CLEANING
GEX001GA	MAIN AC GENERATOR	CLEAN GENERATOR DOME ON TOP
GEX001GA	MAIN AC GENERATOR	CLEAN AREA UNDER GENERATOR
GGR001BA	TANK OIL	CLEAN TANK IN THE INSIDE
GGR010FI	FILTER MAIN OIL SUPPL	CLEAN FILTER HOUSING
GHE002DZ	TANK HYDROGEN DETRNG OF SEAL RTN OIL	2RO CLEAN FLOOR AREA
GHE002DZ	TANK HYDROGEN DETRNG OF SEAL RTN OIL	CONT. CLEAN VESSEL INTERNALLY IF REQUIRED
GHE003DZ	TANK PRESSURE SEAL OIL RETURN	2RO CLEAN FLOOR AREA
GHE003DZ	TANK PRESSURE SEAL OIL RETURN	CONT. CLEAN VESSEL INTERNALLY IF REQUIRED
GHE005DZ	TANK PRESS (EMERGENCY) SEAL OIL RTN	2RO CLEAN FLOOR AREA
GHE005DZ	TANK PRESS (EMERGENCY) SEAL OIL RTN	CONT. CLEAN VESSEL INTERNALLY IF REQUIRED
GHE006DZ	TANK HYDROGEN DETRNG OF SEAL RTN OIL	2RO CLEAN FLOOR AREA
GHE006DZ	TANK HYDROGEN DETRNG OF SEAL RTN OIL	CONT. CLEAN VESSEL INTERNALLY IF REQUIRED
GPV013VV	VALVE MAIN STOP HP INLET	6RO CLEAN VALVE AFTER OVERHAUL
GPV016VV	VALVE AUXILIARY STOP HP INLET	6RO CLEAN VALVE AFTER OVERHAUL
GPV033VV	VALVE NON GOVERNING INTERCEPT TO LP2	6RO CLEAN VALVE AFTER OVERHAUL
GPV034VV	VALVE NON GOVERNING INTERCEPT TO LP2	6RO CLEAN VALVE AFTER OVERHAUL
GPV041VV	VALVE INTERCEPT STOP TO LP1	6RO CLEAN VALVE AFTER OVERHAUL
GPV042VV	VALVE INTERCEPT STOP TO LP1	6RO CLEAN VALVE AFTER OVERHAUL
GPV043VV	VALVE INTERCEPT STOP TO LP2	6RO CLEAN VALVE AFTER OVERHAUL
GPV044VV	VALVE INTERCEPT STOP TO LP2	6RO CLEAN VALVE AFTER OVERHAUL
GSS100ZZ	MOISTURE SEPARATOR REHEATER	CLEAN VESSEL AFTER ARC SPRAYING
GSS100ZZ	MOISTURE SEPARATOR REHEATER	STEAM CLEANING AFTER ARC SPRAYING
GSS100ZZ	MOISTURE SEPARATOR REHEATER	FLUSH VESSEL AFTER ARC SPRAYING
GSS100ZZ	MOISTURE SEPARATOR REHEATER	2RO CLEAN COMPONENT UPON COMPLETION
GSS100ZZ	MOISTURE SEPARATOR REHEATER	1RO CLEAN COMPONENT UPON COMPLETION
GSS100ZZ	MOISTURE SEPARATOR REHEATER	1RO CLEAN COMPONENT
GSS101BA	TANK SEPERATOR DRAINS RECOVERY TANK	2RO CLEAN COMPONENT UPON COMPLETION
GSS102BA	TANK REHEATER CONDENSATE RECOVERY	2RO CLEAN COMPONENT UPON COMPLETION
GSS200ZZ	MOISTURE SEPARATOR REHEATER	CLEAN VESSEL AFTER ARC SPRAYING

TYPICAL OUTAGE WORKSCOPE (EXCLUDING DEFECTS)		
FUNCTIONAL LOC.	DESCRIPTION OF FUNCTIONAL LOCATION	DESCRIPTION OF WORK
GSS200ZZ	MOISTURE SEPARATOR REHEATER	STEAM CLEANING AFTER ARC SPRAYING
GSS200ZZ	MOISTURE SEPARATOR REHEATER	FLUSH VESSEL AFTER ARC SPRAYING
GSS200ZZ	MOISTURE SEPARATOR REHEATER	2RO CLEAN COMPONENT UPON COMPLETION
GSS200ZZ	MOISTURE SEPARATOR REHEATER	1RO CLEAN COMPONENT UPON COMPLETION
GSS200ZZ	MOISTURE SEPARATOR REHEATER	1RO CLEAN COMPONENT
GSS201BA	TANK SEPERATOR DRAINS RECOVERY	2RO CLEAN COMPONENT UPON COMPLETION
GSS202BA	TANK REHEATER CONDENSATE RECOVERY	2RO CLEAN COMPONENT UPON COMPLETION
GSS300ZZ	MOISTURE SEPARATOR REHEATER	CLEAN VESSEL AFTER ARC SPRAYING
GSS300ZZ	MOISTURE SEPARATOR REHEATER	STEAM CLEANING AFTER ARC SPRAYING
GSS300ZZ	MOISTURE SEPARATOR REHEATER	FLUSH VESSEL AFTER ARC SPRAYING
GSS300ZZ	MOISTURE SEPARATOR REHEATER	4RO CLEAN AND REMOVE DEBRIS
GSS300ZZ	MOISTURE SEPARATOR REHEATER	2RO CLEAN COMPONENT UPON COMPLETION
GSS300ZZ	MOISTURE SEPARATOR REHEATER	1RO CLEAN COMPONENT UPON COMPLETION
GSS300ZZ	MOISTURE SEPARATOR REHEATER	1RO CLEAN COMPONENT
GSS301BA	TANK SEPERATOR DRAINS RECOVERY	2RO CLEAN COMPONENT UPON COMPLETION
GSS302BA	TANK REHEATER CONDENSATE RECOVERY TANK	2RO CLEAN COMPONENT UPON COMPLETION
GSS400ZZ	MOISTURE SEPARATOR REHEATER	CLEAN VESSEL AFTER ARC SPRAYING
GSS400ZZ	MOISTURE SEPARATOR REHEATER	STEAM CLEANING AFTER ARC SPRAYING
GSS400ZZ	MOISTURE SEPARATOR REHEATER	FLUSH VESSEL AFTER ARC SPRAYING
GSS400ZZ	MOISTURE SEPARATOR REHEATER	2RO CLEAN COMPONENT UPON COMPLETION
GSS400ZZ	MOISTURE SEPARATOR REHEATER	1RO CLEAN COMPONENT UPON COMPLETION
GSS400ZZ	MOISTURE SEPARATOR REHEATER	1RO CLEAN COMPONENT
GSS401BA	TANK SEPERATOR DRAINS RECOVERY	2RO CLEAN COMPONENT UPON COMPLETION
GSS402BA	TANK REHEATER CONDENSATE RECOVERY	2RO CLEAN COMPONENT UPON COMPLETION
GST	GEN STATOR WINDING COOLING WTR CCT	Pre Clean Star point including Top
GST	GEN STATOR WINDING COOLING WTR CCT	Post Clean Star point
GST002DN	EXCHANGER IONS (TEMPORARY)	REMOVE THE SPENT RESIN AND CLEAN-UP AREA
GSY001JA	CCT BKR 24KV GEN 1GEX001GA	CLEAN BUSDUCTING INSIDE TURBINE HALL
GSY001JA	CCT BKR 24KV GEN 1GEX001GA	CLEAN CABLE TRAYS ABOVE 1GSY001JA
HMX000BG	TURBINE HALL	1RO CLEAN ENTIRE TURBINE HALL FROM TOP TO BOTTOM
HMX000BG	TURBINE HALL	1RO CLEAN INACCESSIBLE AREAS
HPA000BG	ESSENTIAL SERVICE WATER PUMPING STN	1RO CLEAN SEC PUMP STATION TRAIN A
HPA000BG	ESSENTIAL SERVICE WATER PUMPING STN	1RO CLEAN SEC PUMP STATION TRAIN B
HRX	REACTOR BUILDING	ILRT: CLEAN AND PROTECT ALL EAU MEASURING TABLES OUTSIDE OF THE CONTROLLED ZONES
HRX	REACTOR BUILDING	ILRT: CLEAN DRUMS AT ALL PENDULUM STATIONS OUTSIDE OF THE CONTROLLED ZONES
JPH	TURBINE HALL OIL TANK FIRE PROTECTION	1RO CLEAN UP SPILLED WATER DIRECTLY AFTER TEST
SEC001TF	DRUM SCREEN	1RO REMOVAL OF COFFERDAM
SEC001TF	DRUM SCREEN	1RO INSTALL COFFERDAM

TYPICAL OUTAGE WORKSCOPE (EXCLUDING DEFECTS)		
FUNCTIONAL LOC.	DESCRIPTION OF FUNCTIONAL LOCATION	DESCRIPTION OF WORK
SEC001TF	DRUM SCREEN	1RO CLEAN DRUM & RAKE SCREEN PIT
SEC001TF	DRUM SCREEN	1RO HIGH PRESSURE CLEAN ALL ANODES INSID
SEC002TF	DRUM SCREEN	1RO REMOVAL OF COFFERDAM
SEC002TF	DRUM SCREEN	1RO INSTALL COFFERDAM
SEC002TF	DRUM SCREEN	1RO CLEAN DRUM & RAKE SCREEN PIT
SEC002TF	DRUM SCREEN	1RO HIGH PRESSURE CLEAN ALL ANODES INSID
SEC005TY	01SEC LINE NUMBER 005TY	1RO CLEAN FLOOR
SEC006TY	01SEC LINE NUMBER 006TY	1RO CLEAN FLOOR
SEC009TY	01SEC LINE NUMBER 009TY	1RO CLEAN FLOOR
SEC010TY	01SEC LINE NUMBER 010TY	1RO CLEAN FLOOR
SEC011TY	01SEC LINE NUMBER 011TY	1RO CLEAN FLOOR
SEC012TY	01SEC LINE NUMBER 012TY	1RO CLEAN FLOOR
SEC211TY	01SEC LINE NUMBER 211TY	1RO CLEAN COMPONENT
SEC212TY	01SEC LINE NUMBER 212TY	1RO CLEAN COMPONENT
SRI001BA	TANK NORIA CIRCUIT EXPANSION TANK	1RO CLEAN COMPONENT
SRI001EX	EXCHANGER NORIA CIRCUIT CLOSED COOLING	1RO CLEAN FOR EDDY CURRENT TEST
SRI001EX	EXCHANGER NORIA CIRCUIT CLOSED COOLING	1RO CLEAN VESSEL FOR INSPECTION
SRI002EX	EXCHANGER CLOSED COOLING NORIA CIRCUITS	1RO CLEAN VESSEL FOR INSPECTION
SRI002EX	EXCHANGER CLOSED COOLING NORIA CIRCUITS	1RO CLEAN FOR EDDY CURRENT TEST
VVP	MAIN STEAM SYSTEM (NSSS-CI SYSTEM)	1RO CLEAN STEAM BUNKER AREA
VVP001BA	TANK BUFFER STEAM BARREL	2RO CLEAN WORK AREA ON COMPLETION
VVP002BA	TANK BUFFER DRAINS	2RO CLEAN FLOOR AREA

ANNEXURE 4 STORMWATER SYSTEM DRAWINGS









